State of New Mexico
Oil Conservation Division

Incident ID	nAB1913032899
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	285 (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	nAB1913032899
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 04/04/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAB1913032899
District RP	
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: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 04/04/2023

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1913032899
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

OCD Only

Received by: Jocelyn Harimon Date: 04/04/2023

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: Nelson Velez Date: 08/28/2023

Printed Name: Nelson Velez Title: Environmental Specialist - Adv

402 East Wood Avenue
Carlsbad, New Mexico 88220
Tel. 432-701-2159
www.ntgenvironmental.com

April 3, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Site Characterization and Closure Request
Rio Blanco 4 Federal 1
Devon Energy Production Company
Site Location: Unit F, S04, T23S, R34E
(Lat 32.33491º, Long -103.47651º)
Lea County, New Mexico
Incident ID: NAB1913032899

1. Introduction

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure Request Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Rio Blanco 4 Federal 1 (Site). The Site is 19 miles southeast of Eunice, New Mexico located in Unit F, Section 4 of Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.33491° N Latitude and -103.47651° W Longitude. The release occurred on Private land. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

2. Background

Based on the Release Notification C-141 Form, the release occurred on January 16th, 2022, as a result of a breached flowline. Approximately 11 barrels (bbls) of produced water were released, of which 8 bbls were recovered. Upon discovery, the well was shut-in and the area was secured. The release area is shown on Figure 3. The initial C-141 form is attached.

3. Groundwater and Site Characterization

The Site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers (NMOSE) and United State Geological Survey (USGS) databases, there is one known depth to groundwater source within a ½-mile radius of the Site. An NMOSE database well is complete at 285 feet below ground below surface (ft bgs). The well was drilled in 2019 and is located 0.40 mile south of the site in Section 04, T23S, R34E. No other receptors (water wells, playas, wetlands, waterways, lakebeds, or ordinance boundaries) were identified located within each specific boundary or distance from the Site.

The site characterization documentation is attached and summarized below. NTGE characterized the Site in accordance with Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
POD 01622	285ft

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Regulatory Standard	Chloride	TPH (GRO+DRO+MR	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 Remediation and Closure	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = impacts confined within the upper 4ft "rootzone"					

4. Initial Soil Delineation Assessment Summary and Findings

On August 17, 2022, NTGE conducted an initial assessment and five (5) vertical sample points, (i.e., S-1 through S-5) were installed ranging from surface to three (3) ft bgs within the estimated impacted area. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8260B and total petroleum hydrocarbon (TPH) by method 8015 Modified, and chloride by EPA method 300.0 by Eurofins Laboratories in Carlsbad, New Mexico.

Analytical results indicate all sample points exhibit TPH or BTEX concentrations below the limits outlined in *Table 3.1 Closure Criteria for Soils Impacted by a Release* (Closure Criteria). However, two (2) sample points (S-1 and S-2) exhibit chloride concentrations exceeding the Closure Criteria in surface samples; however, deeper samples were successful in vertically delineate the extent of the chloride impacts.

Furthermore, four (4) horizontal sample points (i.e., H-1 through H-4) were installed beyond the suspected impacted soil area, to establish a perimeter, and were sent to Cardinal Laboratories for analysis. Analytical indicate results indicate all samples exhibited TPH, BTEX, and Chloride concentrations below the Closure Criteria. The analytical results are provided in Table 1. The release area and soil sample location are shown on Figure 3.

5. Remedial Action Activities and Confirmation Sampling

Upon receipt of the soil assessment data, Devon proceeded with remedial action activities at the Site to include the excavation and disposal of impacted soils above the Closure Criteria. The release area was excavated to a depth of 2.5ft bgs within the release area. The excavation area is illustrated on Figure 4.

Upon excavation completion, a total of three (3) confirmation samples were collected on March 13th, 2023 from the excavation base (i.e.,CS-1 - CS-3) and six (6) confirmation samples were collected from the excavation sidewalls (i.e., SW1 – SW6) to ensure impacted soils were successfully removed. Analytical results indicated all confirmation sample results are below the Closure Criteria.

The confirmation samples were collected every 200 square feet and submitted to the lab under proper chain of custody protocol for analysis. The samples were analyzed for the following:

- TPH (EPA method 8015 modified),
- BTEX (EPA Method 8021B), and
- Chloride (method SM4500Cl-B).

Analytical results indicated the extent of impacted soils had been removed and no further excavation was required. The excavation was backfilled and returned to near-natural grade. The final excavation extent and confirmation sample locations are shown on Figure 4. Analytical results of the confirmation samples are included in Table 2.

6. Closing Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory limits, and no further actions are required at the site. A copy of the final C- 141 is attached, and Devon formally requests closure with no further regulatory action for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,
NTG Environmental

Ethan Sessums
Project Manager

Attachments:
Site Characterization Documentation
Table 1
Figures
Photographic Log
Laboratory Reports and Chain-of-Custody Documents

Ethan Sessums

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, March 9, 2023 1:33 PM
To: Ethan Sessums
Subject: RE: [EXTERNAL] Sampling Event

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Ethan,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

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

From: Ethan Sessums <ESessums@ntglobal.com>
Sent: Wednesday, March 8, 2023 7:45 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: NTGE Carlsbad <ntge_carlsbad@ntglobal.com>
Subject: [EXTERNAL] Sampling Event

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

NTGE will be performing confirmation sampling at nAB1913032899 Rio Blanco 4 on March 13th, 2023, around 10a.m. on behalf of Devon Energy.

Ethan Sessums
Project Manager
NTGE New Mexico
402 E Wood Ave, Carlsbad, NM 88220
M: (254)-266-5456 W: (432)-701-2159
Email: esessums@ntglobal.com

Air Quality Compliance | EHS Management | Environmental Due Diligence & Audits | Midstream Compliance | Regulatory Compliance & Permitting | Site Assessment, **Remediation & Site Closure** | Water Quality & Natural Resources

INITIAL AND FINAL C-141

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

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 total dissolved solids (TDS) 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		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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: _____ Title: _____

Signature: Kendra DeHoyos Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Jocelyn Harimon Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1913032899
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Site Assessment/Characterization

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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
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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

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Page 4

State of New Mexico
Oil Conservation Division

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAB1913032899
District RP	
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)

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☐ 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.

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

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	nAB1913032899
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Closure

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

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

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Printed Name: Dale Woodall Title: Env. Professional

Signature: Dale Woodall Date: 4/4/2023

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

SITE CHARACTERIZATION INFORMATION

Devon Energy - Rio Blanco 4 CTB 1
Sec 04 T23S R34E Unit E
32.334461, -103.482368
Lea County, New Mexico

Site Characterization
-1 water feature within specified distances of 1/2 mile radius, drilled within 25 years

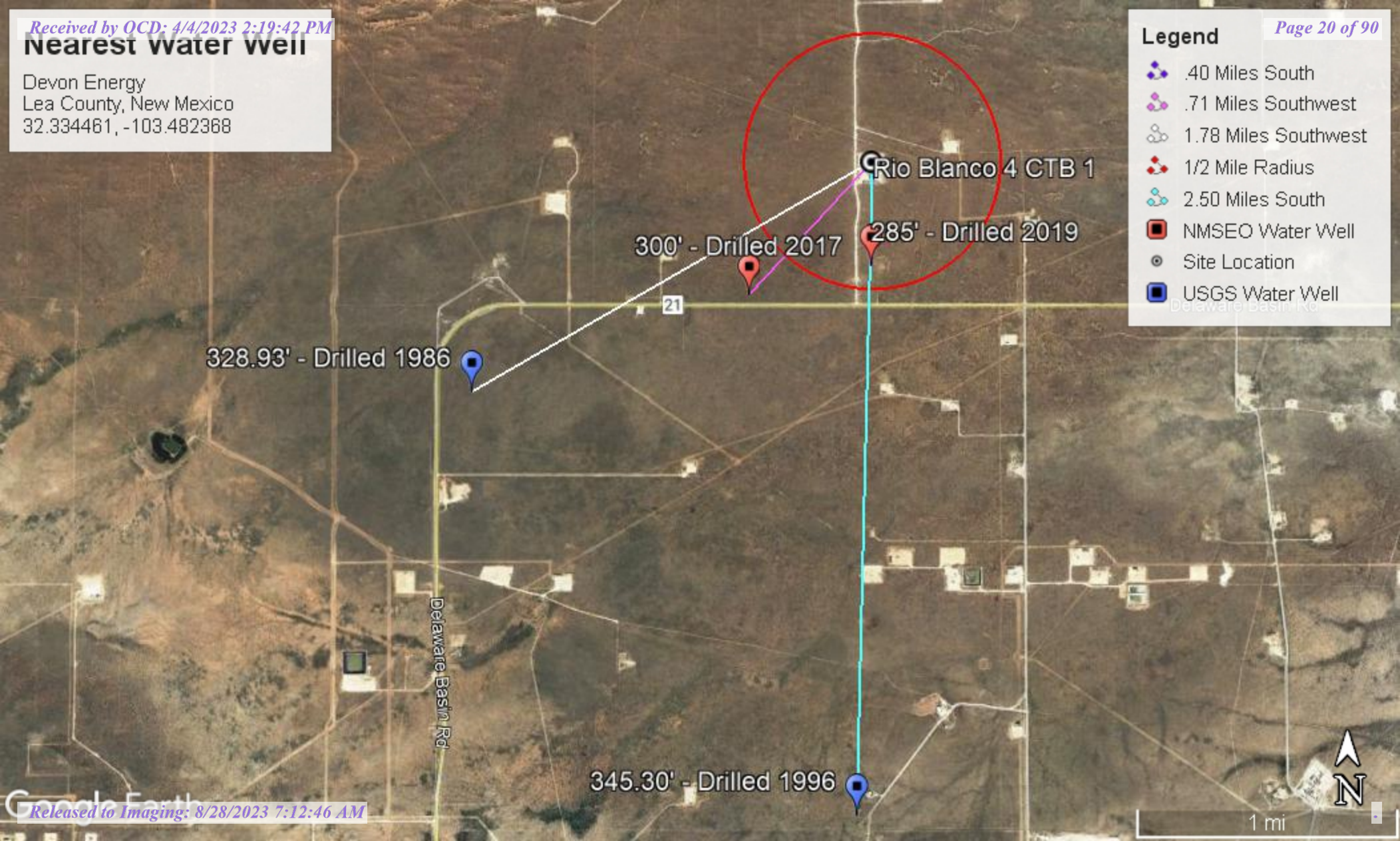
-Low Karst

-USGS Groundwater is 328.93' below surface, 1.78 miles Southwest of the site, 1986 Drilled, Section 07, T23S, R34E
-USGS Groundwater is 345.30' below surface, 2.50 miles South of the site, 1996 Drilled, Section 16, T23S, R34E
-NMSEO Groundwater is 300' below surface, .71 miles Southwest of the site, 2017 Drilled, Section 05, T23S, R34E
-NMSEO Groundwater is 285' below surface, .40 miles South of the site, 2019 Drilled, Section 04, T23S, R34E

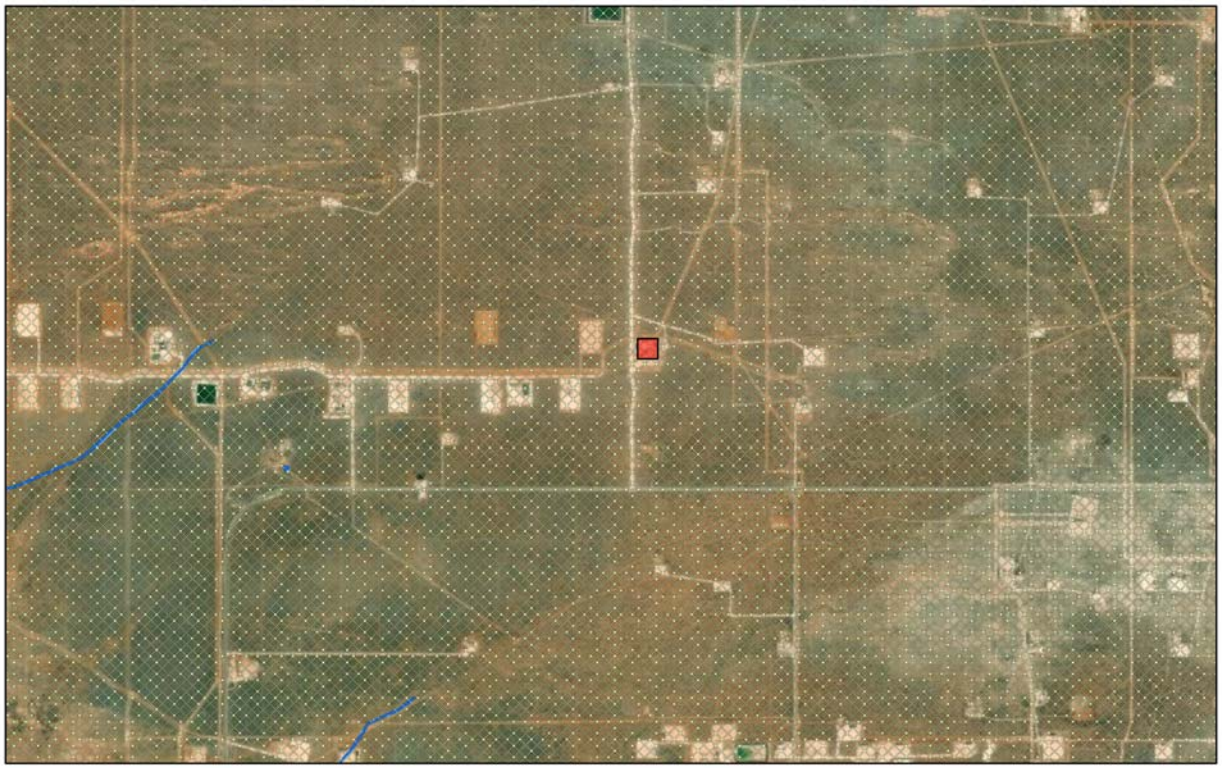
RRALs due to insufficient *RECENT* groundwater data
-Chlorides 600 mg/kg
-TPH GRO+DRO+MRO 100 mg/kg
-BTEX 50 mg/kg
-Benzene 10 mg/kg

Nearest Water Well

Devon Energy
Lea County, New Mexico
32.334461, -103.482368



New Mexico NFHL Data



August 26, 2022

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

FEMA, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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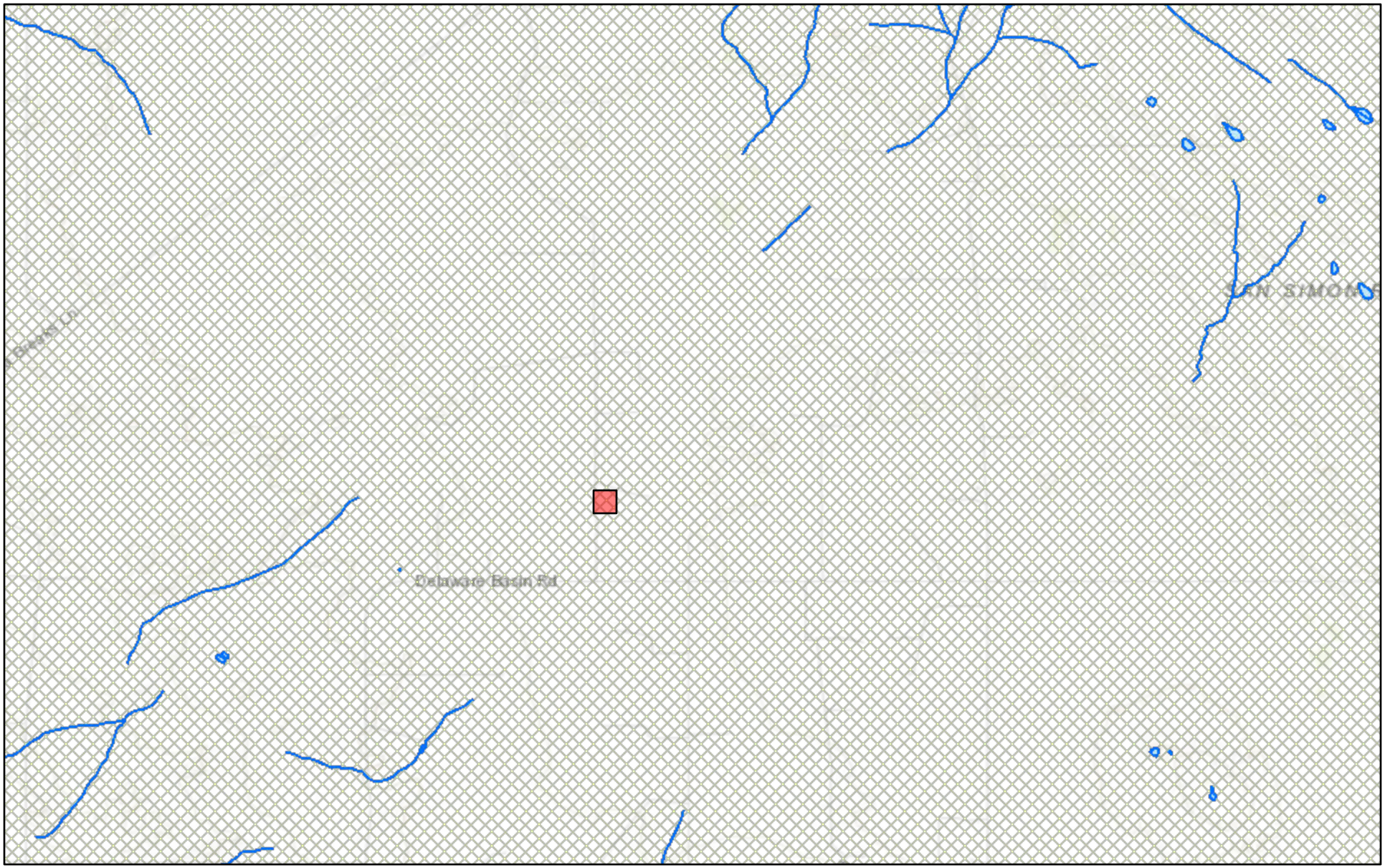
New Mexico NFHL Data



September 14, 2022

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

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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	Distance	Depth Well	Depth Water	Water Column
CP 01622 POD1	CP	LE	1	3	3	04	23S	34E	642830	3577872	648	575	285	290
CP 01502 POD2	CP	LE	4	3	3	05	23S	34E	642074	3577676	1135	680	300	380
CP 01829 POD1	CP	LE	4	4	2	32	22S	34E	642559	3580172	1673	1410	1150	260
CP 01705 POD1	CP	LE	4	4	2	32	22S	34E	642588	3580179	1676	700	305	395
CP 01706 POD1	CP	LE	4	4	2	32	22S	34E	642603	3580185	1680	340	282	58
CP 01502 POD1	CP	LE	4	3	3	05	23S	34E	641316	3577635	1756	648	200	448
CP 01075 POD1	CP	LE	1	1	1	08	23S	34E	641278	3577525	1846	430	20	410
CP 00872 POD1	CP	LE	1	1	1	08	23S	34E	641225	3577504*	1902	494	305	189

Average Depth to Water: **355 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1150 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 642832.85 **Northing (Y):** 3578521 **Radius:** 2000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	CP 01622 POD1	1	3	3	04	23S	34E	642830	3577872

Driller License: 1706 **Driller Company:** ELITE DRILLERS CORPORATION

Driller Name: BRYCE WALLACE

Drill Start Date:	09/20/2019	**Drill Finish Date:**	10/02/2019	**Plug Date:**	
Log File Date:	10/17/2019	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	280 GPM
Casing Size:	9.70	**Depth Well:**	575 feet	**Depth Water:**	285 feet

Water Bearing Stratifications:	Top	Bottom	Description
	150	470	Sandstone/Gravel/Conglomerate
	470	575	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	275	575

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twsp	Rng	X	Y
NA	CP 01502 POD2	4	3	3	05	23S	34E	642074	3577676

Driller License: 1626 **Driller Company:** TAYLOR, ROY ALLEN

Driller Name: TAYLOR, ROY A.

Drill Start Date:	11/22/2017	**Drill Finish Date:**	12/09/2017	**Plug Date:**	
Log File Date:	12/21/2017	**PCW Rcv Date:**	02/07/2019	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	3	**Estimated Yield:**	100 GPM
Casing Size:	9.58	**Depth Well:**	680 feet	**Depth Water:**	300 feet

Water Bearing Stratifications:

Top	Bottom	Description
225	377	Sandstone/Gravel/Conglomerate
391	478	Sandstone/Gravel/Conglomerate
489	674	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
225	680

Meter Number:	17822	**Meter Make:**	TURBINES INC
Meter Serial Number:	1721046	**Meter Multiplier:**	1.0000
Number of Dials:	7	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Monthly

Meter Readings (in Acre-Feet)

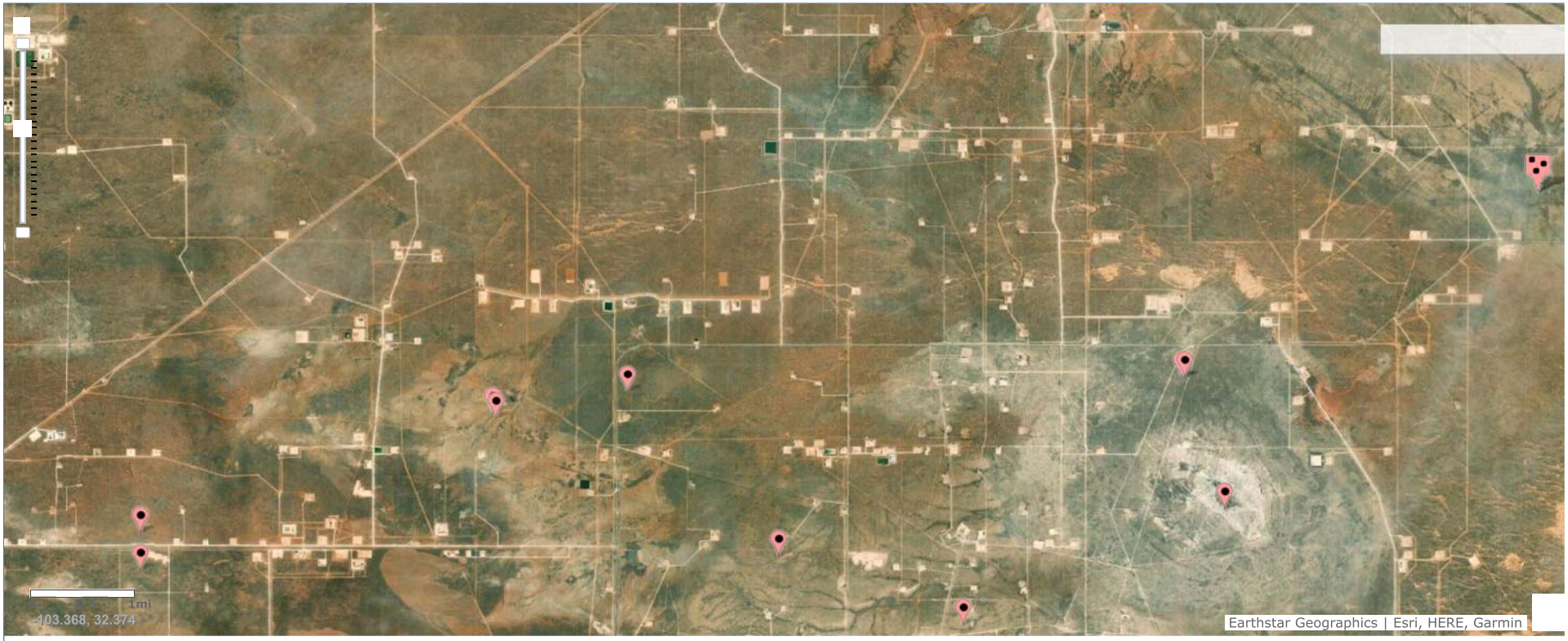
Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
11/01/2018	2018	1187267	A	RPT		0	
06/01/2020	2020	2859834	A	RPT		215.583	
07/01/2020	2020	2926718	A	RPT		8.621	
09/01/2020	2020	3051907	A	RPT	Not an Approved Meter	16.136	
10/01/2020	2020	3141874	A	RPT		11.596	
11/01/2020	2020	3238147	A	RPT		12.409	
12/01/2020	2020	3300990	A	RPT		8.100	
01/01/2021	2020	3359045	A	RPT		7.483	
02/01/2021	2021	3435195	A	RPT		9.815	
03/01/2021	2021	3511183	A	RPT		9.794	
07/01/2021	2021	3814277	A	ad		39.067	
08/01/2021	2021	3882219	A	ad		8.757	
09/01/2021	2021	3955833	A	ad		9.488	
10/01/2021	2021	4032457	A	ad		9.876	
11/01/2021	2021	4133346	A	ad		13.004	
01/01/2022	2022	4316357	A	ad		23.589	
04/01/2022	2022	4628229	A	ad		40.198	
06/01/2022	2022	4812763	A	ad		23.785	

****YTD Meter Amounts:**

Year	Amount
2018	0
2020	279.928
2021	99.801
2022	87.572

National Water Information System: Mapper

Help



Site Information

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- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Attention current WaterAlert users: NextGen WaterAlert is replacing Legacy WaterAlert. You must take action before 9/30/2022 to retain your alerts. Read more.
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321917103303001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321917103303001 23S.34E.06.43314

Lea County, New Mexico
Latitude 32°19'17", Longitude 103°30'30" NAD27
Land-surface elevation 3,480 feet above NAVD88
The depth of the well is 640 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1968-06-11		D	62610		3139.47	NGVD29	1	Z			A
1968-06-11		D	62611		3141.10	NAVD88	1	Z			A
1968-06-11		D	72019	338.90			1	Z			A
1986-03-21		D	62610		3149.44	NGVD29	1	Z			A
1986-03-21		D	62611		3151.07	NAVD88	1	Z			A
1986-03-21		D	72019	328.93			1	Z			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-08-26 11:24:38 EDT
0.33 0.3 nadww01

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 321734103290001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico
Latitude 32°17'53", Longitude 103°28'59" NAD27
Land-surface elevation 3,478.00 feet above NGVD29
The depth of the well is 400 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1971-01-13		D	62610		3133.95	NGVD29	1	Z			A
1971-01-13		D	62611		3135.58	NAVD88	1	Z			A
1971-01-13		D	72019	344.05			1	Z			A
1976-12-16		D	62610		3130.62	NGVD29	1	Z			A
1976-12-16		D	62611		3132.25	NAVD88	1	Z			A
1976-12-16		D	72019	347.38			1	Z			A
1981-03-30		D	62610		3132.60	NGVD29	1	Z			A
1981-03-30		D	62611		3134.23	NAVD88	1	Z			A
1981-03-30		D	72019	345.40			1	Z			A
1986-03-21		D	62610		3130.20	NGVD29	1	Z			A
1986-03-21		D	62611		3131.83	NAVD88	1	Z			A
1986-03-21		D	72019	347.80			1	Z			A
1996-03-08		D	62610		3132.70	NGVD29	1	S			A
1996-03-08		D	62611		3134.33	NAVD88	1	S			A
1996-03-08		D	72019	345.30			1	S			A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2022-08-26 11:38:45 EDT
0.27 0.23 nadww01

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Rio Blanco 4
Devon Energy Production Company
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Delineation Samples													
S-1	8/17/2022	0-1'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1180.0
S-1	8/17/2022	1.5-2'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	705.0
S-1	8/17/2022	2.5-3'	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	119.0
S-2	8/17/2022	0-2'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	707.0
S-2	8/17/2022	1.5-2'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	470.0
S-3	8/17/2022	0-1'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	21.1
S-4	8/17/2022	0-1'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	20.3
S-5	8/17/2022	0-1'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	38.8
H-1	8/17/2022	0-0.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	39.3
H-2	8/17/2022	0-0.5'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	19.0
H-3	8/17/2022	0-0.5'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	23.1
H-4	8/17/2022	0-0.5'	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	18.7

Notes:

1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
~~SP-1~~ Sample Point Excavated
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- Not Analyzed

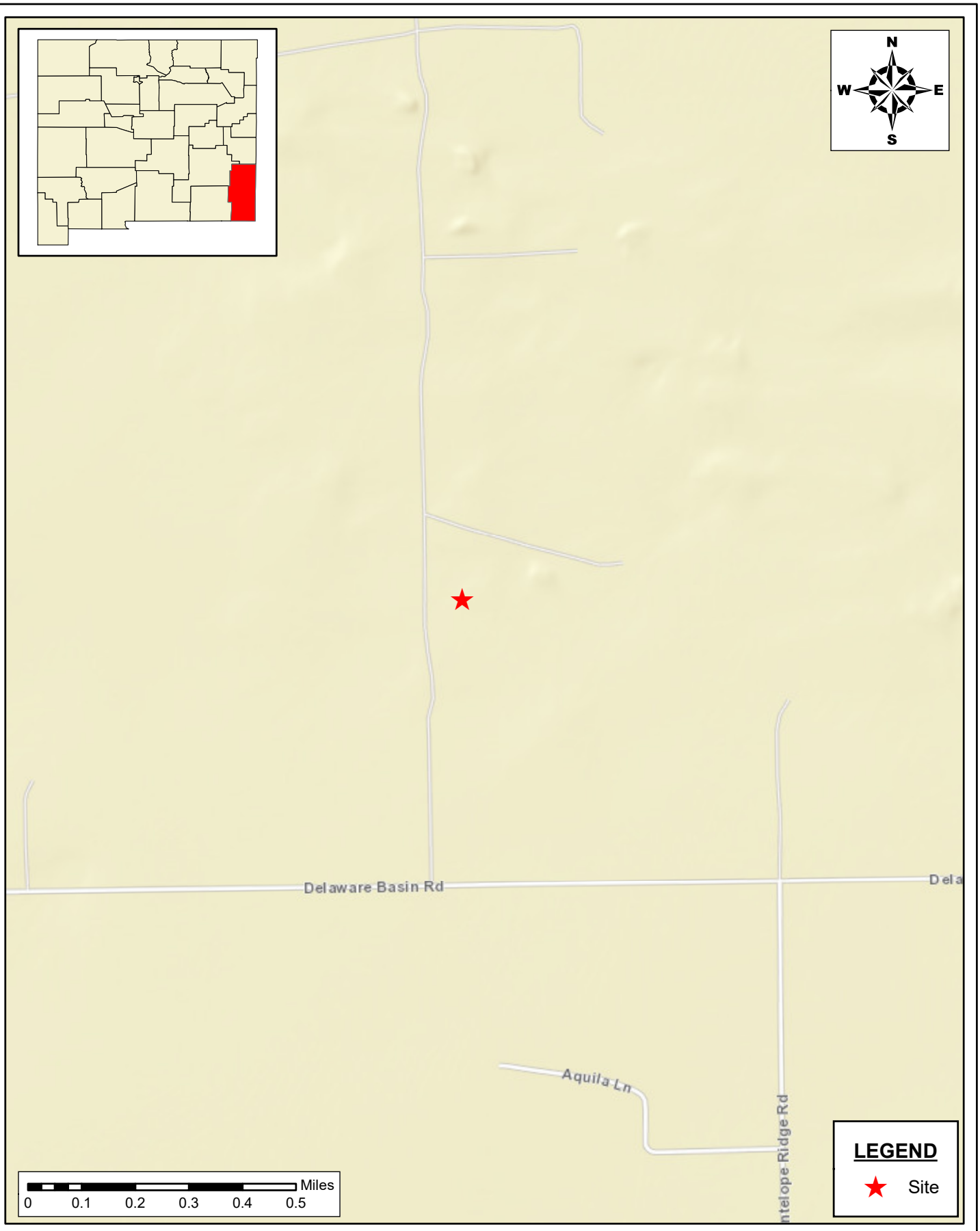
Table 2
Summary of Soil Analytical Data - Confirmation Samples
Rio Blanco 4
Devon Energy Production Company
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C-10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil 51-100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Confirmation Samples													
CS-1	3/13/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-2	3/13/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
CS-3	3/13/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-1	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-2	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-3	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-4	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-5	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-6	3/13/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
~~SP-1~~ Sample Point Excavated
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- Not Analyzed

FIGURES



SITE LOCATION MAP
SITE ASSESSMENT REPORT
RIO BLANCO 4 CTB 1
DEVON ENERGY PRODUCTION COMPANY. LLC
LEA COUNTY, NEW MEXICO

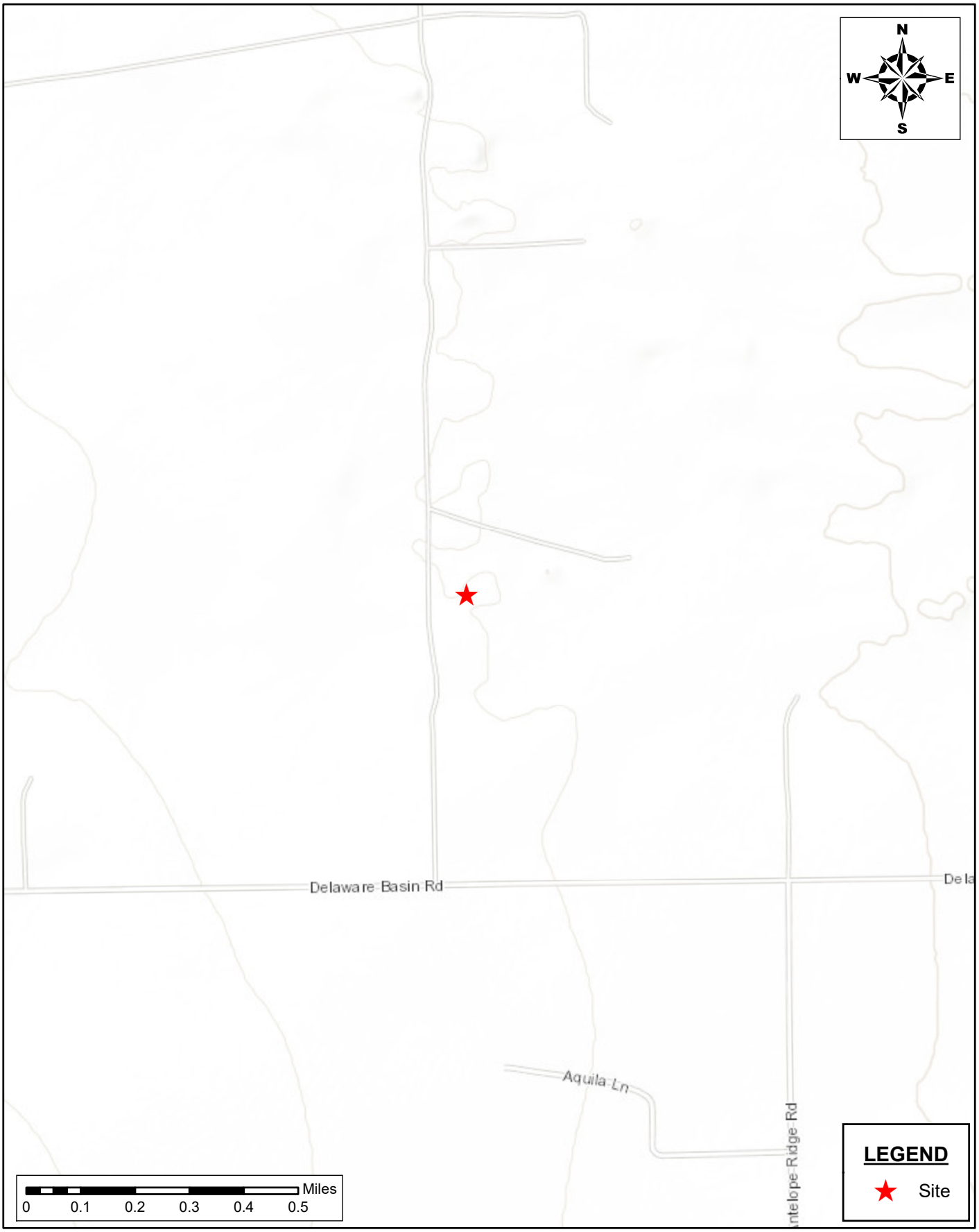
SCALE: As Shown | Date: 9/15/2022 | PROJECT #: 225887

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: P:\2022 PROJECTS\DEVON\RSC\226002 - Rio Blanco 4 CTB 1 (1.16.19)\7- Figures\GIS\226002 Figure_1.mxd



SITE LOCATION MAP
SITE ASSESSMENT REPORT
RIO BLANCO 4 CTB 1
DEVON ENERGY PRODUCTION COMPANY. LLC
LEA COUNTY, NEW MEXICO

SCALE: As Shown | Date: 9/15/2022 | PROJECT #: 225887

New Tech Global Environmental, LLC
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Houston, Texas 77060
T - 281.872.9300
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Web: www.ntgenvironmental.com

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1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

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FIGURE 2
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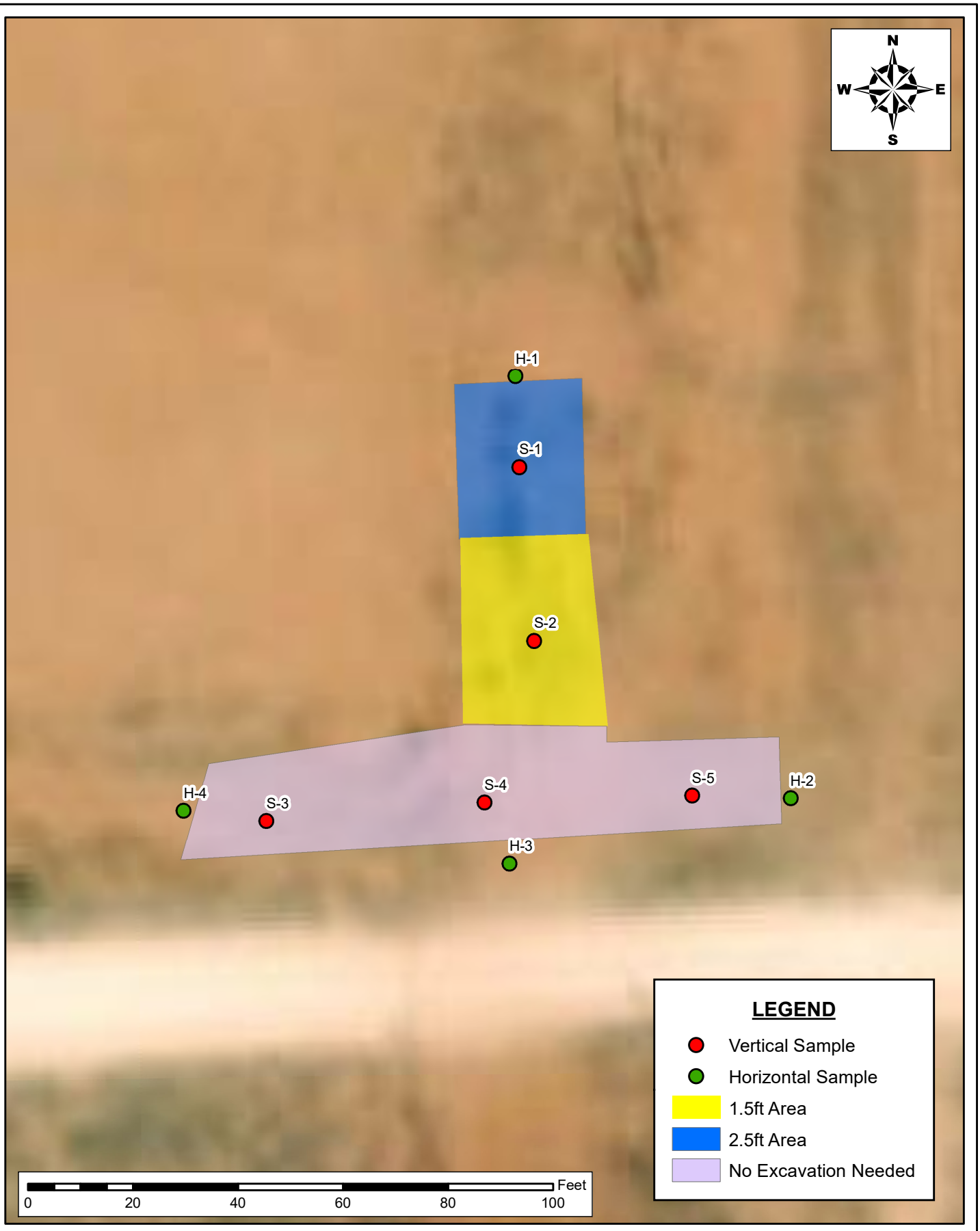

Document Path: P:\2022 PROJECTS\DEVON\RSC\226007 - RIO BLANCA 4 FEDERAL COM #001\7- Figures\GIS\Figure_3_SA_dh.mxd

DELINEATION SAMPLING MAP
CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
RIO BLANCO 4
LEA COUNTY, NEW MEXICO

SCALE: As Shown	Date: 3/28/2023	PROJECT #: 226007

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenvironmental.com

NOTES:
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2. Map Projection: NAD 1983

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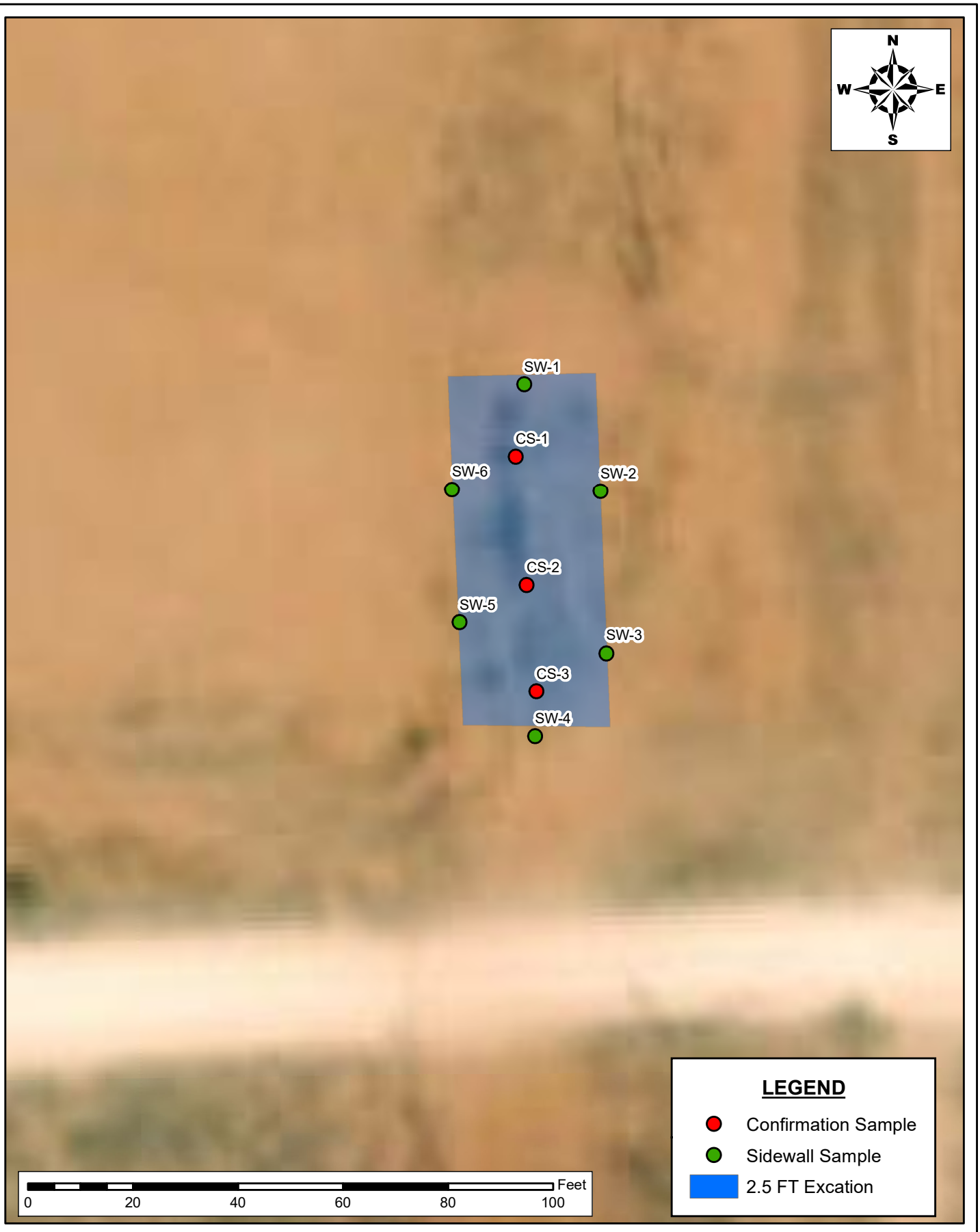
FIGURE 3
SHEET NUMBER:
1 of 1



Document Path: P:\2022 PROJECTS\DEVON\RSC\226007 - RIO BLANCA 4 FEDERAL COM #001\7- Figures\GIS\Figure_4_CM_dh.mxd

CONFIRMATION SAMPLING MAP
CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
RIO BLANCO 4
LEA COUNTY, NEW MEXICO

SCALE: As Shown	Date: 3/28/2023	PROJECT #: 226007

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 1

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

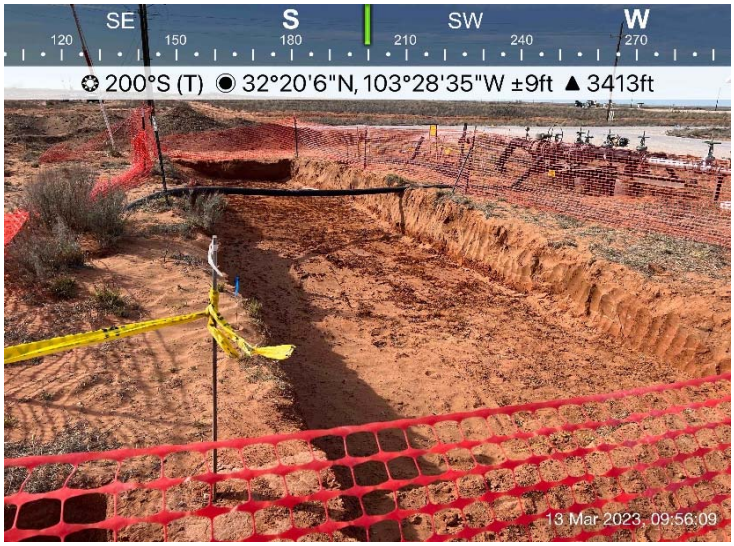
Description:
Final Excavation.

Photograph No. 2

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

Description:
Final Excavation.



Photograph No. 3

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

Description:
Final Excavation.

PHOTOGRAPHIC LOG

Devon Energy Production Company

Photograph No. 4

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

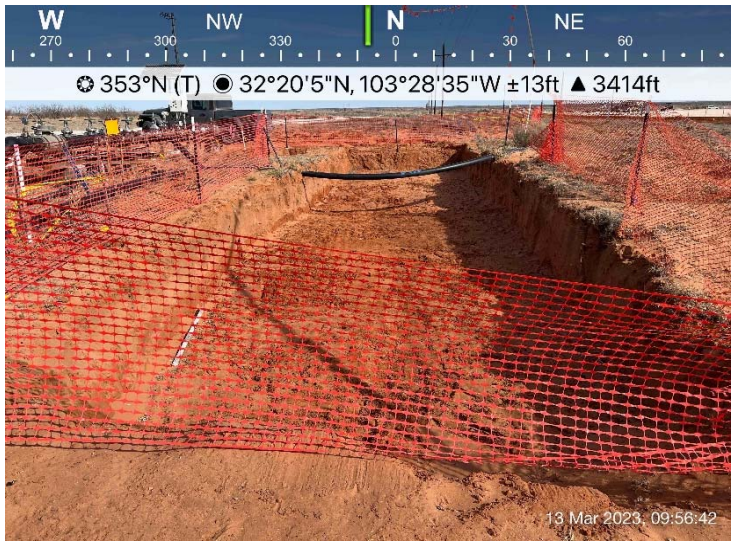
Description:
Final Excavation.

Photograph No. 5

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

Description:
Final Excavation.

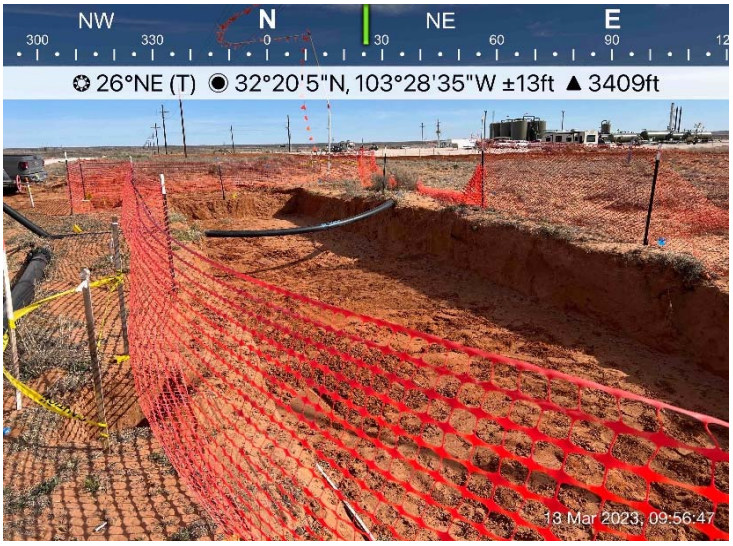


Photograph No. 6

Facility: Rio Blanco 4 Federal 1

County: Lea County, New Mexico

Description:
Final Excavation.



LABORATORY REPORTS AND CHAIN-OF-CUSTODY

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2765-1
Laboratory Sample Delivery Group: 226002
Client Project/Site: Rio Blanco 4 Fed 1
Revision: 1

For:
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Attn: Ethan Sessums

Authorized for release by:
8/31/2022 9:29:41 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Laboratory Job ID: 890-2765-1
SDG: 226002

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Job ID: 890-2765-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2765-1

REVISION

The report being provided is a revision of the original report sent on 8/31/2022. The report (revision 1) is being revised due to Corrected project name on final report.

Report revision history

Receipt
The samples were received on 8/17/2022 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32857 and analytical batch 880-33138 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-2 (890-2765-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-4 (890-2765-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-2 (1.5-2) (890-2765-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-4 (0-1) (890-2765-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-32606 and analytical batch 880-32588 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: H-1
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 06:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 06:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 06:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 06:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 06:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*08/24/22 15:15*	*08/29/22 06:31*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/24/22 15:15*	*08/29/22 06:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 15:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 15:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:10*	*1*
o-Terphenyl	*96*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**39.3**		5.05		mg/Kg			08/31/22 14:01	1

Client Sample ID: H-2
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 06:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 06:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 06:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 06:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 06:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*47*	*S1-*	*70 - 130*	*08/24/22 15:15*	*08/29/22 06:51*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/24/22 15:15*	*08/29/22 06:51*	*1*

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: H-2
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-2
Matrix: Solid

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 15:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 15:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:32*	*1*
o-Terphenyl	*93*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19.0**		5.04		mg/Kg			08/31/22 14:23	1

Client Sample ID: H-3
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 07:12	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 07:12	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 07:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/24/22 15:15	08/29/22 07:12	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 07:12	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/24/22 15:15	08/29/22 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*08/24/22 15:15*	*08/29/22 07:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*08/24/22 15:15*	*08/29/22 07:12*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 15:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 15:54	1

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: H-3
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-3
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:54*	*1*
o-Terphenyl	*88*		*70 - 130*	*08/22/22 09:29*	*08/22/22 15:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.1**		5.00		mg/Kg			08/31/22 14:30	1

Client Sample ID: H-4
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 07:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 07:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 07:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 07:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 07:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 07:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*08/24/22 15:15*	*08/29/22 07:32*	*1*
1,4-Difluorobenzene (Surr)	*125*		*70 - 130*	*08/24/22 15:15*	*08/29/22 07:32*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 16:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 16:15	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*08/22/22 09:29*	*08/22/22 16:15*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/22/22 09:29*	*08/22/22 16:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.7**		4.97		mg/Kg			08/31/22 14:37	1

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-1 (0-1)

Lab Sample ID: 890-2765-5
Matrix: Solid

Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 09:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 09:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 09:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 09:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 09:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*08/24/22 15:15*	*08/29/22 09:22*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*08/24/22 15:15*	*08/29/22 09:22*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:10*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1180**		24.9		mg/Kg			08/31/22 14:44	5

Client Sample ID: S-1 (01.5-2)

Lab Sample ID: 890-2765-6
Matrix: Solid

Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 01.5 - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 09:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 09:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 09:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/24/22 15:15	08/29/22 09:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 09:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/24/22 15:15	08/29/22 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*08/24/22 15:15*	*08/29/22 09:42*	*1*

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-1 (01.5-2)

Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 01.5 - 5

Lab Sample ID: 890-2765-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*08/24/22 15:15*	*08/29/22 09:42*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:31*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**705**		4.96		mg/Kg			08/31/22 15:06	1

Client Sample ID: S-1 (2.5-3)

Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 2.5 - 3

Lab Sample ID: 890-2765-7

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 10:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 10:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 10:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/24/22 15:15	08/29/22 10:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 10:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/24/22 15:15	08/29/22 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*08/24/22 15:15*	*08/29/22 10:03*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*08/24/22 15:15*	*08/29/22 10:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			08/23/22 14:48	1

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Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-1 (2.5-3)

Lab Sample ID: 890-2765-7
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 2.5 - 3

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:53*	*1*
o-Terphenyl	*80*		*70 - 130*	*08/22/22 09:29*	*08/22/22 17:53*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		5.03		mg/Kg			08/31/22 15:13	1

Client Sample ID: S-2 (0-2)

Lab Sample ID: 890-2765-8
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 10:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 10:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 10:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 10:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 10:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/24/22 15:15	08/29/22 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/24/22 15:15*	*08/29/22 10:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*08/24/22 15:15*	*08/29/22 10:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 18:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 18:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*08/22/22 09:29*	*08/22/22 18:37*	*1*
o-Terphenyl	*92*		*70 - 130*	*08/22/22 09:29*	*08/22/22 18:37*	*1*

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-2 (0-2)
Lab Sample ID: 890-2765-8
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	707		5.02		mg/Kg			08/31/22 15:20	1

Client Sample ID: S-2 (1.5-2)
Lab Sample ID: 890-2765-9
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 1.5 - 2

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 10:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 10:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 10:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 10:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/24/22 15:15	08/29/22 10:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/24/22 15:15	08/29/22 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*39*	*S1-*	*70 - 130*	*08/24/22 15:15*	*08/29/22 10:44*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*08/24/22 15:15*	*08/29/22 10:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 18:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 18:59	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*08/22/22 09:29*	*08/22/22 18:59*	*1*
o-Terphenyl	*82*		*70 - 130*	*08/22/22 09:29*	*08/22/22 18:59*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	470		5.03		mg/Kg			08/31/22 15:27	1

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-3 (0-1)

Lab Sample ID: 890-2765-10
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 11:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 11:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 11:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/24/22 15:15	08/29/22 11:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/24/22 15:15	08/29/22 11:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/24/22 15:15	08/29/22 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*08/24/22 15:15*	*08/29/22 11:04*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*08/24/22 15:15*	*08/29/22 11:04*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 19:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 19:20	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*08/22/22 09:29*	*08/22/22 19:20*	*1*
o-Terphenyl	*79*		*70 - 130*	*08/22/22 09:29*	*08/22/22 19:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.1**		4.99		mg/Kg			08/31/22 15:34	1

Client Sample ID: S-4 (0-1)

Lab Sample ID: 890-2765-11
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 11:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 11:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 11:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/24/22 15:15	08/29/22 11:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/24/22 15:15	08/29/22 11:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/24/22 15:15	08/29/22 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*08/24/22 15:15*	*08/29/22 11:24*	*1*

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-4 (0-1)

Lab Sample ID: 890-2765-11
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*130*		*70 - 130*	*08/24/22 15:15*	*08/29/22 11:24*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			08/23/22 14:48	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 19:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 19:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/22/22 09:29	08/22/22 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*08/22/22 09:29*	*08/22/22 19:42*	*1*
o-Terphenyl	*87*		*70 - 130*	*08/22/22 09:29*	*08/22/22 19:42*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20.3**		5.01		mg/Kg			08/31/22 15:42	1

Client Sample ID: S-5 (0-1)

Lab Sample ID: 890-2765-12
Matrix: Solid
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 11:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/24/22 15:15	08/29/22 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 11:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/24/22 15:15	08/29/22 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*08/24/22 15:15*	*08/29/22 11:45*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*08/24/22 15:15*	*08/29/22 11:45*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			08/29/22 15:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/23/22 14:48	1

Client Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-5 (0-1)

Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14
Sample Depth: 0 - 1

Lab Sample ID: 890-2765-12

Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 20:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 20:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/22/22 09:29	08/22/22 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*08/22/22 09:29*	*08/22/22 20:04*	*1*
o-Terphenyl	*85*		*70 - 130*	*08/22/22 09:29*	*08/22/22 20:04*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**38.8**		4.95		mg/Kg			08/31/22 16:03	1

Surrogate Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2765-1	H-1	95	103
890-2765-2	H-2	47 S1-	108
890-2765-3	H-3	92	105
890-2765-4	H-4	64 S1-	125
890-2765-5	S-1 (0-1)	93	104
890-2765-6	S-1 (01.5-2)	81	110
890-2765-7	S-1 (2.5-3)	96	108
890-2765-8	S-2 (0-2)	97	103
890-2765-9	S-2 (1.5-2)	39 S1-	109
890-2765-10	S-3 (0-1)	94	107
890-2765-11	S-4 (0-1)	63 S1-	130
890-2765-12	S-5 (0-1)	89	99
890-2771-A-1-C MS	Matrix Spike	86	108
890-2771-A-1-D MSD	Matrix Spike Duplicate	94	102
LCS 880-32857/1-A	Lab Control Sample	101	96
LCSD 880-32857/2-A	Lab Control Sample Dup	98	96
MB 880-32857/5-A	Method Blank	84	114
MB 880-33026/5-A	Method Blank	78	121

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-18312-A-12-E MS	Matrix Spike	92	83
880-18312-A-12-F MSD	Matrix Spike Duplicate	90	82
890-2765-1	H-1	104	96
890-2765-2	H-2	112	93
890-2765-3	H-3	102	88
890-2765-4	H-4	103	87
890-2765-5	S-1 (0-1)	105	92
890-2765-6	S-1 (01.5-2)	100	87
890-2765-7	S-1 (2.5-3)	96	80
890-2765-8	S-2 (0-2)	114	92
890-2765-9	S-2 (1.5-2)	98	82
890-2765-10	S-3 (0-1)	93	79
890-2765-11	S-4 (0-1)	106	87
890-2765-12	S-5 (0-1)	99	85
LCS 880-32606/2-A	Lab Control Sample	92	82
LCSD 880-32606/3-A	Lab Control Sample Dup	109	107
MB 880-32606/1-A	Method Blank	104	101

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-32857/5-A
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 04:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/24/22 15:15	08/29/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/24/22 15:15	08/29/22 04:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/24/22 15:15	08/29/22 04:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*08/24/22 15:15*	*08/29/22 04:00*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*08/24/22 15:15*	*08/29/22 04:00*	*1*

Lab Sample ID: LCS 880-32857/1-A
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09205		mg/Kg		92	70 - 130
Toluene	0.100	0.1038		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1055		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.1968		mg/Kg		98	70 - 130
o-Xylene	0.100	0.1045		mg/Kg		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-32857/2-A
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09149		mg/Kg		91	70 - 130	1	35
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	3	35
Ethylbenzene	0.100	0.1023		mg/Kg		102	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1907		mg/Kg		95	70 - 130	3	35
o-Xylene	0.100	0.1015		mg/Kg		102	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2771-A-1-C MS
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F2 F1	0.101	0.06187	F1	mg/Kg		62	70 - 130
Toluene	<0.00200	U F2 F1	0.101	0.05727	F1	mg/Kg		57	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2771-A-1-C MS
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F2 F1	0.101	0.05818	F1	mg/Kg		58	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.201	0.09724	F1	mg/Kg		48	70 - 130
o-Xylene	<0.00200	U F2 F1	0.101	0.05296	F1	mg/Kg		53	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 890-2771-A-1-D MSD
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0998	0.09682	F2	mg/Kg		97	70 - 130	44	35
Toluene	<0.00200	U F2 F1	0.0998	0.09590	F2	mg/Kg		96	70 - 130	50	35
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.09225	F2	mg/Kg		92	70 - 130	45	35
m-Xylene & p-Xylene	<0.00401	U F2 F1	0.200	0.1688	F2	mg/Kg		85	70 - 130	54	35
o-Xylene	<0.00200	U F2 F1	0.0998	0.08965	F2	mg/Kg		90	70 - 130	51	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-33026/5-A
Matrix: Solid
Analysis Batch: 33138

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 33026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/22 09:25	08/28/22 16:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/22 09:25	08/28/22 16:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/22 09:25	08/28/22 16:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/26/22 09:25	08/28/22 16:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/22 09:25	08/28/22 16:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/26/22 09:25	08/28/22 16:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*08/26/22 09:25*	*08/28/22 16:24*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*08/26/22 09:25*	*08/28/22 16:24*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-32606/1-A
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 11:08	1

QC Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-32606/1-A
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 32606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 11:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/22/22 09:29	08/22/22 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*08/22/22 09:29*	*08/22/22 11:08*	*1*
o-Terphenyl	*101*		*70 - 130*	*08/22/22 09:29*	*08/22/22 11:08*	*1*

Lab Sample ID: LCS 880-32606/2-A
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 32606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	928.5		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	891.9		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: LCSD 880-32606/3-A
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 32606

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1038		mg/Kg		104	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	1035		mg/Kg		104	70 - 130	15	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: 880-18312-A-12-E MS
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 32606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	1593	F1	mg/Kg		157	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1603	F1	mg/Kg		159	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

QC Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-18312-A-12-F MSD
Matrix: Solid
Analysis Batch: 32588

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 32606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	995	1760	F1	mg/Kg		174	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	995	1588	F1	mg/Kg		158	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*90*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32574/1-A
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/31/22 13:40	1

Lab Sample ID: LCS 880-32574/2-A
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.7		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-32574/3-A
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	251.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-2765-1 MS
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: H-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	39.3		253	301.7		mg/Kg		104	90 - 110

Lab Sample ID: 890-2765-1 MSD
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: H-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	39.3		253	301.8		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2765-11 MS
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: S-4 (0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	20.3		251	288.6		mg/Kg		107	90 - 110		

Lab Sample ID: 890-2765-11 MSD
Matrix: Solid
Analysis Batch: 33396

Client Sample ID: S-4 (0-1)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	20.3		251	290.8		mg/Kg		108	90 - 110	1	20

QC Association Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

GC VOA

Prep Batch: 32857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	5035	
890-2765-2	H-2	Total/NA	Solid	5035	
890-2765-3	H-3	Total/NA	Solid	5035	
890-2765-4	H-4	Total/NA	Solid	5035	
890-2765-5	S-1 (0-1)	Total/NA	Solid	5035	
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	5035	
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	5035	
890-2765-8	S-2 (0-2)	Total/NA	Solid	5035	
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	5035	
890-2765-10	S-3 (0-1)	Total/NA	Solid	5035	
890-2765-11	S-4 (0-1)	Total/NA	Solid	5035	
890-2765-12	S-5 (0-1)	Total/NA	Solid	5035	
MB 880-32857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-32857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-32857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2771-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2771-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 33026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-33026/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 33138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	8021B	32857
890-2765-2	H-2	Total/NA	Solid	8021B	32857
890-2765-3	H-3	Total/NA	Solid	8021B	32857
890-2765-4	H-4	Total/NA	Solid	8021B	32857
890-2765-5	S-1 (0-1)	Total/NA	Solid	8021B	32857
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	8021B	32857
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	8021B	32857
890-2765-8	S-2 (0-2)	Total/NA	Solid	8021B	32857
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	8021B	32857
890-2765-10	S-3 (0-1)	Total/NA	Solid	8021B	32857
890-2765-11	S-4 (0-1)	Total/NA	Solid	8021B	32857
890-2765-12	S-5 (0-1)	Total/NA	Solid	8021B	32857
MB 880-32857/5-A	Method Blank	Total/NA	Solid	8021B	32857
MB 880-33026/5-A	Method Blank	Total/NA	Solid	8021B	33026
LCS 880-32857/1-A	Lab Control Sample	Total/NA	Solid	8021B	32857
LCSD 880-32857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	32857
890-2771-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	32857
890-2771-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	32857

Analysis Batch: 33250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	Total BTEX	
890-2765-2	H-2	Total/NA	Solid	Total BTEX	
890-2765-3	H-3	Total/NA	Solid	Total BTEX	
890-2765-4	H-4	Total/NA	Solid	Total BTEX	
890-2765-5	S-1 (0-1)	Total/NA	Solid	Total BTEX	
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

GC VOA (Continued)

Analysis Batch: 33250 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	Total BTEX	
890-2765-8	S-2 (0-2)	Total/NA	Solid	Total BTEX	
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	Total BTEX	
890-2765-10	S-3 (0-1)	Total/NA	Solid	Total BTEX	
890-2765-11	S-4 (0-1)	Total/NA	Solid	Total BTEX	
890-2765-12	S-5 (0-1)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 32588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	8015B NM	32606
890-2765-2	H-2	Total/NA	Solid	8015B NM	32606
890-2765-3	H-3	Total/NA	Solid	8015B NM	32606
890-2765-4	H-4	Total/NA	Solid	8015B NM	32606
890-2765-5	S-1 (0-1)	Total/NA	Solid	8015B NM	32606
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	8015B NM	32606
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	8015B NM	32606
890-2765-8	S-2 (0-2)	Total/NA	Solid	8015B NM	32606
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	8015B NM	32606
890-2765-10	S-3 (0-1)	Total/NA	Solid	8015B NM	32606
890-2765-11	S-4 (0-1)	Total/NA	Solid	8015B NM	32606
890-2765-12	S-5 (0-1)	Total/NA	Solid	8015B NM	32606
MB 880-32606/1-A	Method Blank	Total/NA	Solid	8015B NM	32606
LCS 880-32606/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	32606
LCSD 880-32606/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	32606
880-18312-A-12-E MS	Matrix Spike	Total/NA	Solid	8015B NM	32606
880-18312-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	32606

Prep Batch: 32606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	8015NM Prep	
890-2765-2	H-2	Total/NA	Solid	8015NM Prep	
890-2765-3	H-3	Total/NA	Solid	8015NM Prep	
890-2765-4	H-4	Total/NA	Solid	8015NM Prep	
890-2765-5	S-1 (0-1)	Total/NA	Solid	8015NM Prep	
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	8015NM Prep	
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	8015NM Prep	
890-2765-8	S-2 (0-2)	Total/NA	Solid	8015NM Prep	
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	8015NM Prep	
890-2765-10	S-3 (0-1)	Total/NA	Solid	8015NM Prep	
890-2765-11	S-4 (0-1)	Total/NA	Solid	8015NM Prep	
890-2765-12	S-5 (0-1)	Total/NA	Solid	8015NM Prep	
MB 880-32606/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-32606/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-32606/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-18312-A-12-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-18312-A-12-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

GC Semi VOA

Analysis Batch: 32786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Total/NA	Solid	8015 NM	
890-2765-2	H-2	Total/NA	Solid	8015 NM	
890-2765-3	H-3	Total/NA	Solid	8015 NM	
890-2765-4	H-4	Total/NA	Solid	8015 NM	
890-2765-5	S-1 (0-1)	Total/NA	Solid	8015 NM	
890-2765-6	S-1 (01.5-2)	Total/NA	Solid	8015 NM	
890-2765-7	S-1 (2.5-3)	Total/NA	Solid	8015 NM	
890-2765-8	S-2 (0-2)	Total/NA	Solid	8015 NM	
890-2765-9	S-2 (1.5-2)	Total/NA	Solid	8015 NM	
890-2765-10	S-3 (0-1)	Total/NA	Solid	8015 NM	
890-2765-11	S-4 (0-1)	Total/NA	Solid	8015 NM	
890-2765-12	S-5 (0-1)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 32574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Soluble	Solid	DI Leach	
890-2765-2	H-2	Soluble	Solid	DI Leach	
890-2765-3	H-3	Soluble	Solid	DI Leach	
890-2765-4	H-4	Soluble	Solid	DI Leach	
890-2765-5	S-1 (0-1)	Soluble	Solid	DI Leach	
890-2765-6	S-1 (01.5-2)	Soluble	Solid	DI Leach	
890-2765-7	S-1 (2.5-3)	Soluble	Solid	DI Leach	
890-2765-8	S-2 (0-2)	Soluble	Solid	DI Leach	
890-2765-9	S-2 (1.5-2)	Soluble	Solid	DI Leach	
890-2765-10	S-3 (0-1)	Soluble	Solid	DI Leach	
890-2765-11	S-4 (0-1)	Soluble	Solid	DI Leach	
890-2765-12	S-5 (0-1)	Soluble	Solid	DI Leach	
MB 880-32574/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32574/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32574/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2765-1 MS	H-1	Soluble	Solid	DI Leach	
890-2765-1 MSD	H-1	Soluble	Solid	DI Leach	
890-2765-11 MS	S-4 (0-1)	Soluble	Solid	DI Leach	
890-2765-11 MSD	S-4 (0-1)	Soluble	Solid	DI Leach	

Analysis Batch: 33396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2765-1	H-1	Soluble	Solid	300.0	32574
890-2765-2	H-2	Soluble	Solid	300.0	32574
890-2765-3	H-3	Soluble	Solid	300.0	32574
890-2765-4	H-4	Soluble	Solid	300.0	32574
890-2765-5	S-1 (0-1)	Soluble	Solid	300.0	32574
890-2765-6	S-1 (01.5-2)	Soluble	Solid	300.0	32574
890-2765-7	S-1 (2.5-3)	Soluble	Solid	300.0	32574
890-2765-8	S-2 (0-2)	Soluble	Solid	300.0	32574
890-2765-9	S-2 (1.5-2)	Soluble	Solid	300.0	32574
890-2765-10	S-3 (0-1)	Soluble	Solid	300.0	32574
890-2765-11	S-4 (0-1)	Soluble	Solid	300.0	32574
890-2765-12	S-5 (0-1)	Soluble	Solid	300.0	32574

QC Association Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

HPLC/IC (Continued)

Analysis Batch: 33396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-32574/1-A	Method Blank	Soluble	Solid	300.0	32574
LCS 880-32574/2-A	Lab Control Sample	Soluble	Solid	300.0	32574
LCSD 880-32574/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32574
890-2765-1 MS	H-1	Soluble	Solid	300.0	32574
890-2765-1 MSD	H-1	Soluble	Solid	300.0	32574
890-2765-11 MS	S-4 (0-1)	Soluble	Solid	300.0	32574
890-2765-11 MSD	S-4 (0-1)	Soluble	Solid	300.0	32574

Lab Chronicle

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: H-1
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 06:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 15:10	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 14:01	CH	EET MID

Client Sample ID: H-2
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 06:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 15:32	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 14:23	CH	EET MID

Client Sample ID: H-3
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 07:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 15:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 14:30	CH	EET MID

Client Sample ID: H-4
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 07:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: H-4
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 16:15	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 14:37	CH	EET MID

Client Sample ID: S-1 (0-1)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 09:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		5	0 mL	0 mL	33396	08/31/22 14:44	CH	EET MID

Client Sample ID: S-1 (01.5-2)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 09:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 17:31	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:06	CH	EET MID

Client Sample ID: S-1 (2.5-3)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 10:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 17:53	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-1 (2.5-3)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:13	CH	EET MID

Client Sample ID: S-2 (0-2)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 10:23	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 18:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:20	CH	EET MID

Client Sample ID: S-2 (1.5-2)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 10:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:27	CH	EET MID

Client Sample ID: S-3 (0-1)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 11:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 19:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:34	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Client Sample ID: S-4 (0-1)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 11:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 19:42	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 15:42	CH	EET MID

Client Sample ID: S-5 (0-1)
Date Collected: 08/17/22 00:00
Date Received: 08/17/22 15:14

Lab Sample ID: 890-2765-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	32857	08/24/22 15:15	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	33138	08/29/22 11:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			33250	08/29/22 15:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			32786	08/23/22 14:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	32606	08/22/22 09:29	AM	EET MID
Total/NA	Analysis	8015B NM		1			32588	08/22/22 20:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	32574	08/21/22 17:07	SMC	EET MID
Soluble	Analysis	300.0		1	0 mL	0 mL	33396	08/31/22 16:03	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: NT Global
Project/Site: Rio Blanco 4 Fed 1

Job ID: 890-2765-1
SDG: 226002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2765-1	H-1	Solid	08/17/22 00:00	08/17/22 15:14	
890-2765-2	H-2	Solid	08/17/22 00:00	08/17/22 15:14	
890-2765-3	H-3	Solid	08/17/22 00:00	08/17/22 15:14	
890-2765-4	H-4	Solid	08/17/22 00:00	08/17/22 15:14	
890-2765-5	S-1 (0-1)	Solid	08/17/22 00:00	08/17/22 15:14	0 - 1
890-2765-6	S-1 (01.5-2)	Solid	08/17/22 00:00	08/17/22 15:14	01.5 - 5
890-2765-7	S-1 (2.5-3)	Solid	08/17/22 00:00	08/17/22 15:14	2.5 - 3
890-2765-8	S-2 (0-2)	Solid	08/17/22 00:00	08/17/22 15:14	0 - 2
890-2765-9	S-2 (1.5-2)	Solid	08/17/22 00:00	08/17/22 15:14	1.5 - 2
890-2765-10	S-3 (0-1)	Solid	08/17/22 00:00	08/17/22 15:14	0 - 1
890-2765-11	S-4 (0-1)	Solid	08/17/22 00:00	08/17/22 15:14	0 - 1
890-2765-12	S-5 (0-1)	Solid	08/17/22 00:00	08/17/22 15:14	0 - 1

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

Page 1 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Rio Blanco 4 Fed 1	Turn Around	☑ Routine ☐ Rush
Project Number:	226002	Due Date:	
Project Location	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tyler Kimball		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:	11	Corrected Temperature:	4.0

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
H-1	8/17/2022		X		Comp	1	X	X	X		
H-2	8/17/2022		X		Comp	1	X	X	X		
H-3	8/17/2022		X		Comp	1	X	X	X		
H-4	8/17/2022		X		Comp	1	X	X	X		
S-1 (0-1)	8/17/2022		X		Comp	1	X	X	X		
S-1 (01.5-2)	8/17/2022		X		Comp	1	X	X	X		
S-1 (2.5-3)	8/17/2022		X		Comp	1	X	X	X		
S-2 (0-1)	8/17/2022		X		Comp	1	X	X	X		
S-2(1.5-2)	8/17/2022		X		Comp	1	X	X	X		
S-3 (0-1)	8/17/2022		X		Comp	1	X	X	X		
S-4 (0-1)	8/17/2022		X		Comp	1	X	X	X		

890-2765 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Additional Comments:

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	8-17-22 1514	8-17-22	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

Page 2 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Wesley Mathews
Company Name:	NTG Environmental	Company Name:	Devon Energy
Address:	402 E Wood Ave	Address:	6488 Seven Rivers Highway
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Artesia, NM 88210
Phone:	254-266-5456	Email:	Wesley.Mathews@dvn.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Rio Blanco 4 Fed 1	Turn Around	
Project Number:	226002	☑ Routine ☐ Rush	
Project Location	Lea County	Due Date:	
Sampler's Name:	Tyler Kimball	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:	12	Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
S-5 (0-1)	8/17/2022		X		Comp	1		X	X	X		

Additional Comments:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		8-17-22 1514	2		
3			4		
5			6		

Revised Date 0501 2020 Rev. 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-2765-1
SDG Number: 226002

Login Number: 2765
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-2765-1
SDG Number: 226002

Login Number: 2765
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 08/19/22 10:36 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 15, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIO BLANCO 4

Enclosed are the results of analyses for samples received by the laboratory on 03/13/23 11:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: CS - 1 (H231130-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	191	95.5	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	159	79.3	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *89.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: CS - 2 (H231130-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	191	95.5	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	159	79.3	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *92.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: CS - 3 (H231130-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	191	95.5	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	159	79.3	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *91.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 1 (H231130-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2023	ND	191	95.5	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/14/2023	ND	159	79.3	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	03/14/2023	ND					

Surrogate: 1-Chlorooctane *93.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 2 (H231130-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2023	ND	191	95.5	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/14/2023	ND	159	79.3	200	20.4	
EXT DRO >C28-C36	<10.0	10.0	03/14/2023	ND					

Surrogate: 1-Chlorooctane *84.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 3 (H231130-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	187	93.5	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	182	91.0	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *87.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 4 (H231130-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	187	93.5	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	182	91.0	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *93.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 5 (H231130-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	187	93.5	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	182	91.0	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *90.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.4 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
ETHAN SESSUMS
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	03/13/2023	Sampling Date:	03/13/2023
Reported:	03/15/2023	Sampling Type:	Soil
Project Name:	RIO BLANCO 4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	DEVON - LEA CO, NM		

Sample ID: SW - 6 (H231130-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/13/2023	ND	2.21	110	2.00	0.260	
Toluene*	<0.050	0.050	03/13/2023	ND	2.18	109	2.00	0.594	
Ethylbenzene*	<0.050	0.050	03/13/2023	ND	2.14	107	2.00	0.161	
Total Xylenes*	<0.150	0.150	03/13/2023	ND	6.55	109	6.00	0.665	
Total BTEX	<0.300	0.300	03/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	03/14/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/13/2023	ND	187	93.5	200	1.21	
DRO >C10-C28*	<10.0	10.0	03/13/2023	ND	182	91.0	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	03/13/2023	ND					

Surrogate: 1-Chlorooctane *88.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.3 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	NTGE
Project Manager:	Ethan Sessums
Address:	
City:	State: Zip:
Phone #:	254-266-5456 Fax #:
Project #:	Project Owner:
Project Name:	RioBlanco4
Project Location:	Lea Co. NM
Sampler Name:	Ethan Sessums

BILL TO

P.O. #:	21093519
Company:	Devon
Attn:	Dale Woodall
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING DATE	TIME	BTEX 8021B	TPH 8015M (GRO+DRO+MRO)	Chloride 4500
H231130-1	CS-1	C	1			✓							3/13		✓	✓	✓
2	CS-2	C	1			✓									✓	✓	✓
3	CS-3	C	1			✓									✓	✓	✓
4	SW-1	C	1			✓									✓	✓	✓
5	SW-2	C	1			✓									✓	✓	✓
6	SW-3	C	1			✓									✓	✓	✓
7	SW-4	C	1			✓									✓	✓	✓
8	SW-5	C	1			✓									✓	✓	✓
9	SW-6	C	1			✓									✓	✓	✓

Relinquished By:	Date: 3/13	Received By:	
	Time: 1108		
Relinquished By:	Date:	Received By:	
	Time:		

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:

REMARKS:

Delivered By: (Circle One)	Observed Temp. °C 4.4	Sample Condition Cool: ☑ Yes ☐ No	Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) SR
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.8			

Turnaround Time: Standard ☐ Rush ☒ 48 HR!
Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

SR

FORM-006 R 3.3 07/18/22

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

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

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 204158
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	8/28/2023