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	nRM2028946301
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party CHISHOLM ENERGY OPERATING, LLC	OGRID 372137
Contact Name TIM GREEN	Contact Telephone 432-413-9747
Contact email tgreen@chisholmenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 801 CHERRY STREET, SUITE 1200-UNIT 20, FORT WORTH, TX 76102	

Location of Release Source

Latitude 32.384674 Longitude -103.394214
(NAD 83 in decimal degrees to 5 decimal places)

Site Name ANTLER 17 STATE 1BS 2H	Site Type WELL SITE LOCATION
Date Release Discovered 10/05/2020	API# *(if applicable)* 30-025-44142

Unit Letter	Section	Township	Range	County
M	17	22S	35E	LEA

Surface Owner: [X] 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)

[X] Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 10
[X] Produced Water	Volume Released (bbls) 35	Volume Recovered (bbls) 30
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	[X] Yes [ ] No
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

CBLE THAT HANGS DOWN FOR ROD ROTATOR GOT HOOKED ON A 1" NIPPLE ON THE PUMPING TEE AND BROKE IT OFF ALLOWING FLUIDS BEING PUMPED TO SURFACE TO ESCAPE THE WELLHEAD

LENGTH OF SPILL IS 55' X 46' X 2" = 421 cuft @ 60% POROSITY = 45 BBLS

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028946301
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? AMOUNT SPILLED WAS MORE THAN 25 BBLS.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

YES, EMAIL NOTIFICATION WAS SENT BY JENNIFER ELROD TO PAUL KAUTZ AT OCD HOBBS OFFICE

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: JENNIFER ELROD Title: SR. REGULATORY ANALYST

Signature: Jennifer Elrod Date: 10/13/2020

email: jelrod@chisholmenergy.com Telephone: 817-953-3728

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028946301
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?	Unknown (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	nRM2028946301
District RP	
Facility ID	
Application ID	

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

Printed Name: Rebecca Haskell Title: Senior Project Magager

Signature: Rebecca Haskell Date: 10/23/2023

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 10/30/2023

Incident ID	nRM2028946301
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: Rebecca Haskell Title: Senior Project Magager

Signature: Rebecca Haskell Date: 10/23/2023

email: bhaskell@ntglobal.com Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells Date: 10/30/2023

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: _____ Date: _____

Printed Name: _____ Title: _____

701 Tradewinds Blvd
Midland, Texas 79707
Tel. 432-766-1918
www.ntgenvironmental.com

October 23, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 1
1625 N French Drive
Hobbs, New Mexico 88210

Re: Site Characterization and Closure Request
Antler State 17 1BS #002H
Earthstone Operating, LLC
Site Location: Unit M, S17, T22S, R35E
(Lat 32.384674°, Long -103.394214°)
Lea County, New Mexico
Incident ID: nRM2028946301

1. Introduction

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure Report for the NMOCD District 1 Office in Hobbs, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Antler State 17 1BS #002H (Site). The Site is located within Unit Letter M, Section 17 of Township 22 South and Range 35 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.384674° N latitude and -103.394214° W Longitude. The release occurred on land owned by the State of New Mexico. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

2. Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release occurred on October 5, 2020, the result of a 1” nipple tee on the well head breaking off. Approximately ten (10) barrels (bbls) of crude oil and approximately thirty-five (35) barrels (bbls) of produced water were released. Approximately 10 bbls of crude oil and 30 bbls of the produced water were recovered for a net loss of five (5) bbls of produced water. Upon discovery, the well was shut-in, and area secured with free liquids removed utilizing a vacuum truck. The release footprint is shown on Figure 3. The Release Notification Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nRM2028946301 are attached to the front of this report.

3. Groundwater and Site Characterization

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

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, no groundwater well exists within a ½-mile radius of the site. The nearest water well is 0.66 miles south-southwest of the site and was drilled in 1936 with groundwater at approximately 78 feet below ground surface (ft bgs). According to the Karst map, the site is located within a low Karst area. The Site characterization documentation (NM Oil and Gas Map, Points of Diversion, Significant Watercourse Map, Wetlands Map, and FEMA Map) is provided as Attachment A.

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

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

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Soil Delineation Activities and Analytical Results

On July 14, 2023, NTGE was on-site to conduct an initial delineation assessment whereby three (3) vertical sample points (L-1 through L-3) were installed to delineate the area. The samples were collected from depths ranging from the surface to a maximum of two and a half (2.5) ft bgs with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory (Eurofins) of Midland, Texas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015 modified, and chloride by EPA Method 300.0. Analysis indicated that L-2 and L-3 exhibited TPH and chloride concentrations over Table 1 Closure Criteria.

On August 3, 2023, in order to complete delineation at the site, NTGE was on-site to install three (3) horizontal sampling points (H-1 through H-3). Samples were collected at depths ranging from surface to 3.0 ft bgs and submitted to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides. Analytical concentrations for the samples were below the Table 1 standards for all analytes. Figure 3 depicts the initial delineation sample locations, with analytical results provided on Table 1, Summary of Soil Analytical Data – Delineation Samples, Laboratory reports are included in Appendix D.

5. Remedial Action Activities and Confirmation Sampling

Based on the initial assessment results, American Safety Services, Inc (ASSI), proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. All samples were collected based on one (1) composite sample per 200 square feet (ft^2) of surface area for both bottom and sidewalls and submitted to Cardinal for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, or chlorides by EPA Method SM4500Cl-B.

Upon completion of initial excavation activities, NTGE was on site September 12, 2023, to collect three (3) base composite samples (CS-1 through CS-3) and five (5) sidewall samples (SW-1 through SW-5) from 0 to 3 ft bgs. The samples were submitted to Cardinal for analysis. All samples exhibited benzene, BTEX, TPH and chloride concentrations below Table 1 Closure Criteria. See Table 2 for the analytical results and Figure 4 for the confirmation sampling locations. Laboratory Analytical Reports are provided in Appendix D. A photographic log is provided as Appendix B and Confirmation Sampling Notifications are provided as Appendix C.

6. Soils Disposition and Backfill Activities

Between September 22 and September 25, 2023, approximately 52.51 tons of impacted material was transported offsite for disposal at Lea Land, LLC located in Carlsbad, New Mexico. Upon completion of the excavation, the site was backfilled with like-sourced materials and brought up to surface grade. Manifests are available upon request and aren't included in this report due to the size of the file.

7. Closure Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with the NMOCD regulatory standards. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone respectfully requests closure for nRM2028946301. The Release Notification, Site Assessment/Characterization, and closure portions of the NMOCD form C-141 are included at the front of this report.

If you have any questions regarding this report or need additional information, please contact us at 432-685-3898.

Sincerely,
NTG Environmental

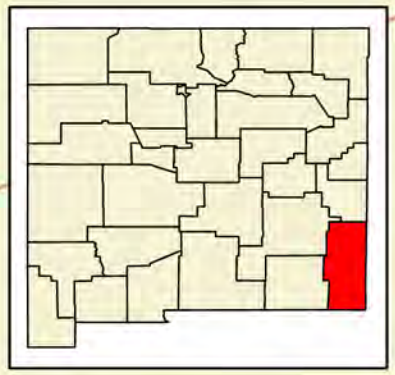
Jeff Kindley, P.G

Senior Project Manager/Geologist

Attachments:

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Delineation Sample Location Map
Figure 4 – Confirmation Sample Location Map
Table 1 Summary of Soil Analytical Data – Delineation Samples
Table 2 Summary of Soil Analytical Data – Confirmation Samples
Appendix A – Site Characterization Documentation
Appendix B – Photographic Log
Appendix C – Confirmation Sampling Notifications
Appendix D – Laboratory Reports and Chain-of-Custody Documentation

FIGURES



Monument

Lea

Oil Center

176

Antler 17
State 1BS
#002H

Ochoa

0 2 4 6 8
Miles

LEGEND

★ Site Location

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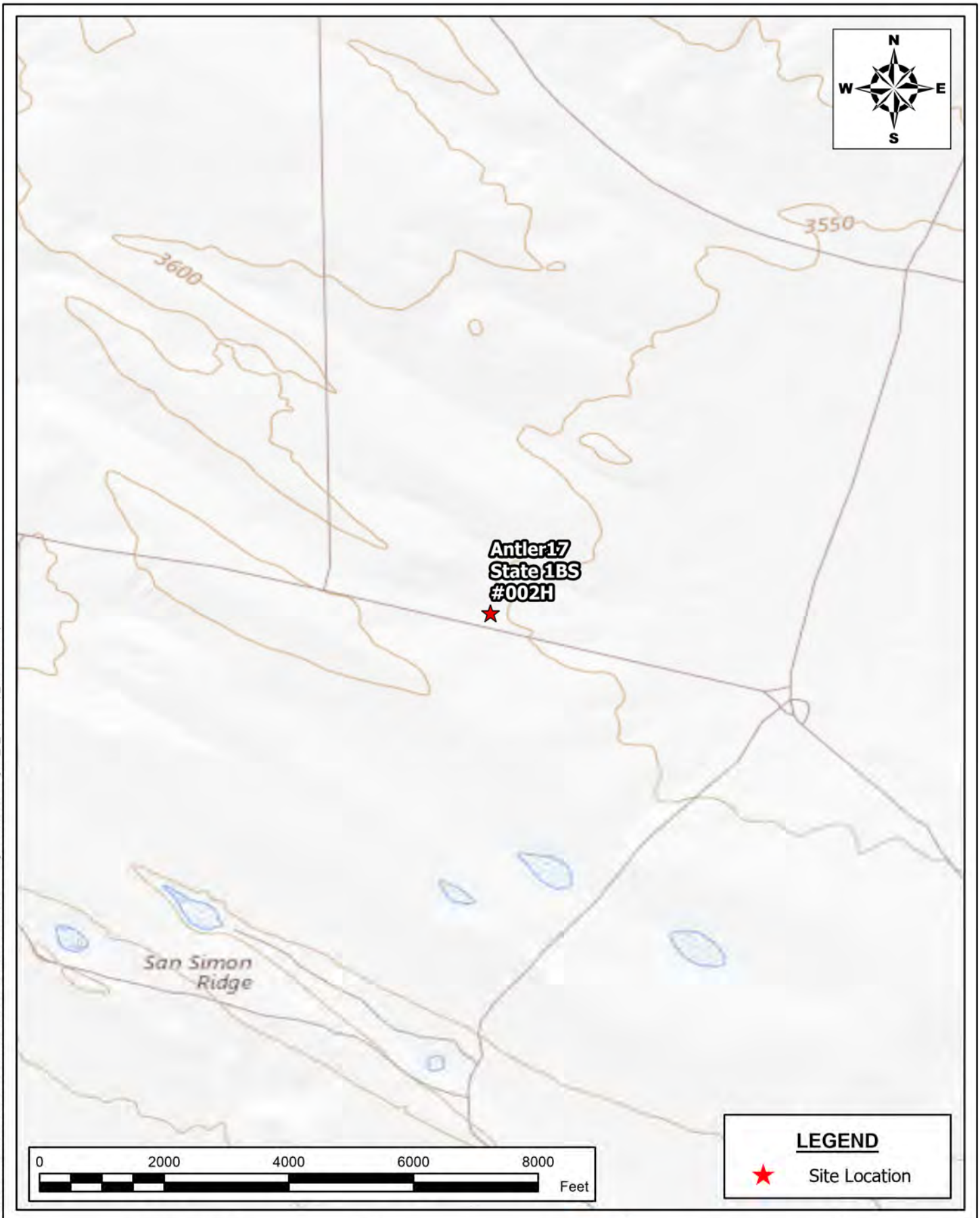
SITE LOCATION MAP
CLOSURE REPORT
EARTHSTONE OPERATING, LLC
ANTLER 17 STATE 1BS #002H
LEA COUNTY, NEW MEXICO
32.384674°, -103.394214°

SCALE: As Shown | Date: 10/13/2023 | PROJECT #: 237580

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

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1



TOPOGRAPHIC MAP
CLOSURE REPORT
EARTHSTONE OPERATING, LLC
ANTLER 17 STATE 1BS #002H
LEA COUNTY, NEW MEXICO
32.384674°, -103.394214°

SCALE: As Shown | Date: 10/13/2023 | PROJECT #: 237580

New Tech Global Environmental, LLC
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Houston, Texas 77060
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F - 281.872.4521
Web: www.ntglobal.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

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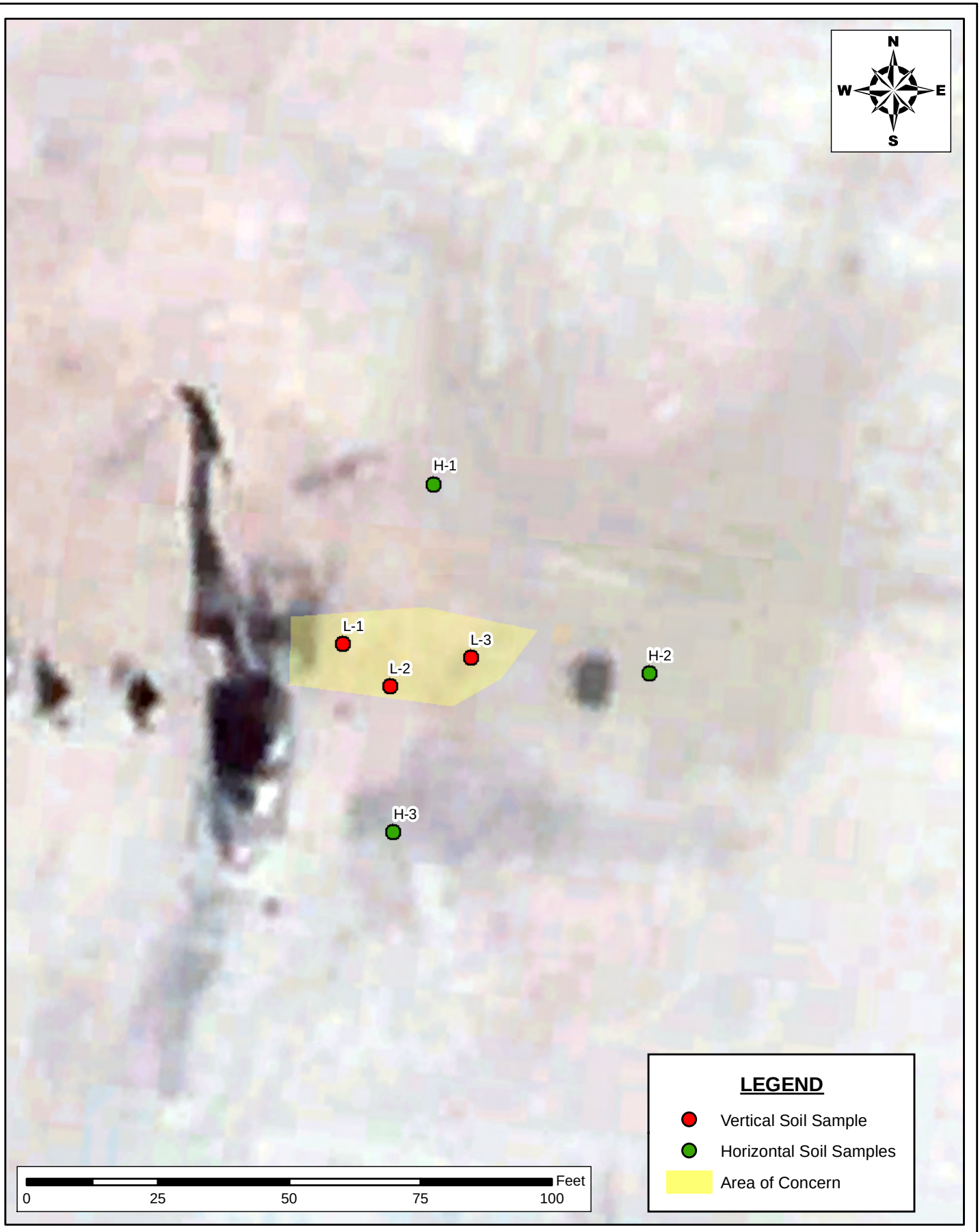

DELINEATION MAP
CLOSURE REPORT
EARTHSTONE OPERATION, LCC
ANTLER 17 STATE 1BS #002H
LEA COUNTY NEW MEXICO
32.384674° -103.394214°

SCALE: AS SHOWN | DATE: 10/23/2023 | PROJECT #: 237580

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Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

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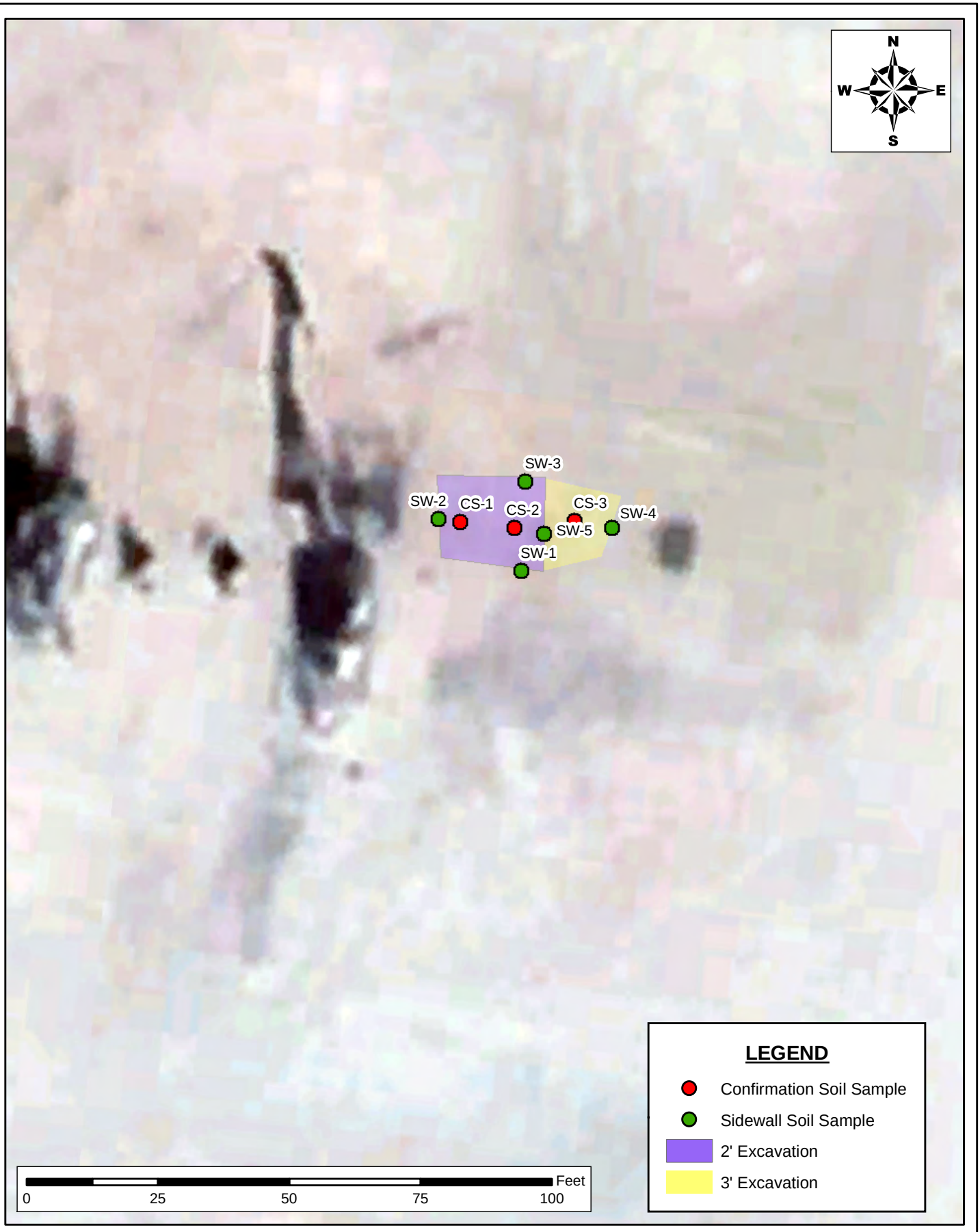

CONFIRMATION MAP
CLOSURE REPORT
EARTHSTONE OPERATION, LCC
ANTLER 17 STATE 1BS #002H
LEA COUNTY NEW MEXICO
32.384674° -103.394214°

SCALE: AS SHOWN | DATE: 10/23/2023 | PROJECT #: 237580

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NOTES:
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 4
SHEET NUMBER:
1 of 1

Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237580 Antler 17 State 1BS #002H\7 - Figures\GIS\Figure_4_CM.mxd

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Antler 17 State #002H
Earthstone Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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 ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Assessment Samples													
L-1	7/14/2023	Surface	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	**216**
	7/14/2023	0-6"	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	**163**
L-2	7/14/2023	Surface	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<50.4	**528**	**528**	<50.4	**528**	**7,690**
	7/14/2023	0-6"	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.1	**75.1**	**75.1**	<50.1	**75.1**	**407**
	7/14/2023	6"-1'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	**1,130**
	7/14/2023	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	**588**
L-3	7/14/2023	Surface	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	**1,590**	**1,590**	<49.8	**1,590**	**2,360**
	7/14/2023	0-6"	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.2	**740**	**740**	<50.2	**740**	**800**
	7/14/2023	6"-1'	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<50.4	**55.4**	**55.4**	<50.4	**55.4**	**501**
	7/14/2023	1-1.5'	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.7	**133**	**133**	<49.7	**133**	**315**
	7/14/2023	2-2.5'	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.5	<49.5	<49.5	<49.5	<49.5	**115**
Confirmation Sidewall Samples													
H-1	8/3/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**464**
	8/3/2023	0-6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**320**
	8/3/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**224**
	8/3/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**64**
	8/3/2023	2	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
	8/3/2023	2.5	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
H-2	8/2/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**64**
	8/2/2023	6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
	8/2/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**64**
	8/2/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**64**
	8/3/2023	2'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**
	8/3/2023	2.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**16**
H-3	8/2/2023	Surface	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**96**
	8/2/2023	6"	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**160**
	8/3/2023	1'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**96**
	8/3/2023	1.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**64**
	8/3/2023	2'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
	8/3/2023	2.5'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**
	8/3/2023	3'	<0.050	<0.050	<0.050	<0.0150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**

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
Antler 17 State 1BS #002
Earthstone Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C35)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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 ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Base Confirmation Samples													
CS-1	9/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**240**
CS-2	9/12/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**58.5**	**58.5**	**40.0**	**98.5**	**368**
CS-3	9/12/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**176**
Sidewall Samples													
SW-1	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**432**
SW-2	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**448**
SW-3	9/12/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**13.3**	**13.3**	<10.0	**13.3**	**224**
SW-4	9/12/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**128**
SW-5	9/12/2023	2-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**224**

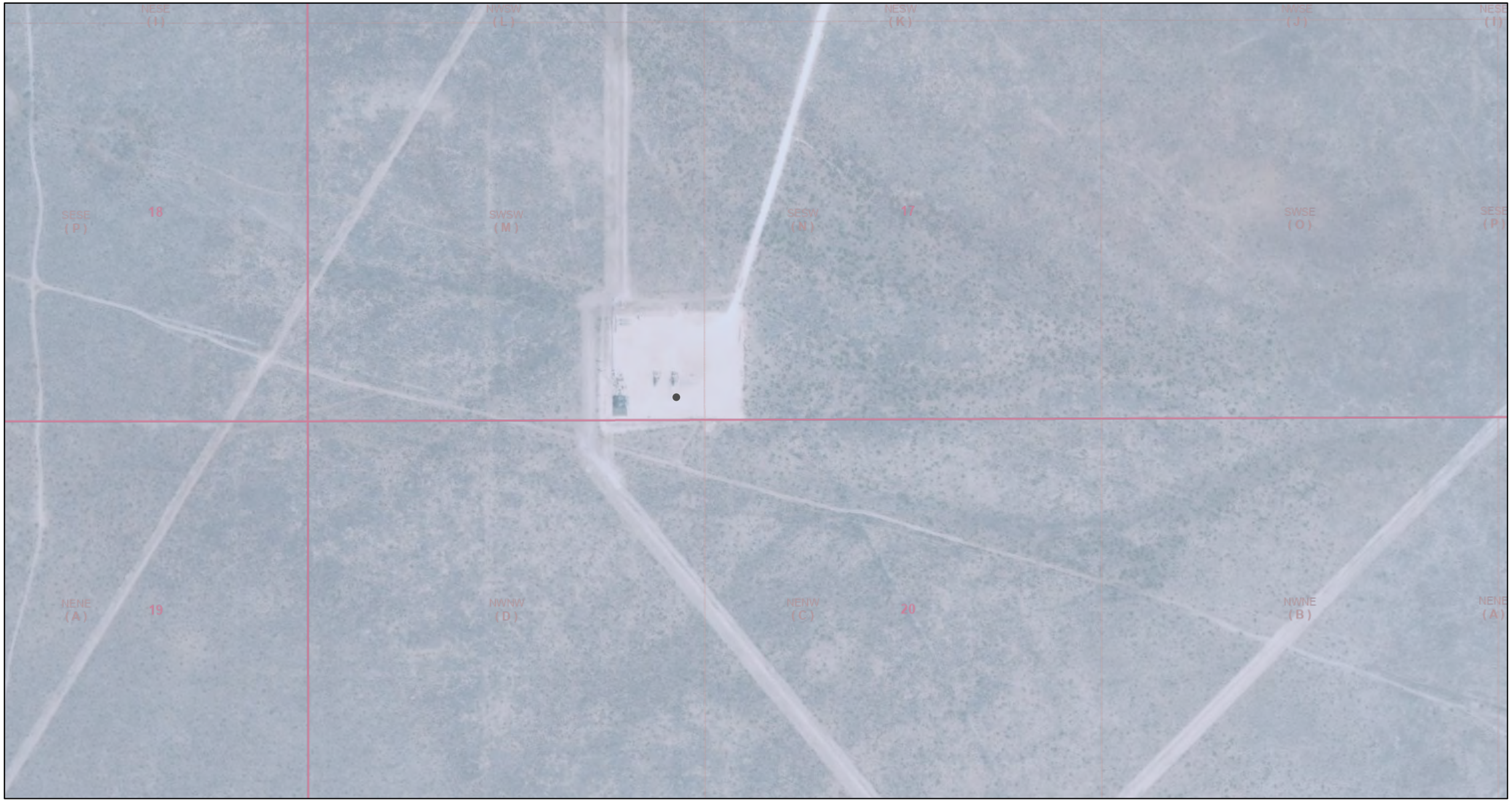
Notes:

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
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

~~SP-1~~ Sample Point Excavated

APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION

Site Characterization Map



10/23/2023, 3:13:43 PM

Karst Occurrence Potential

Low

PLSS Second Division

PLSS First Division

1:4,514

0 0.05 0.1 0.19 mi

0 0.07 0.15 0.3 km

BLM, OCD, New Mexico Tech, USGS, OCD, Esri, HERE, Garmin, iPC, Maxar, NM OSE, BLM

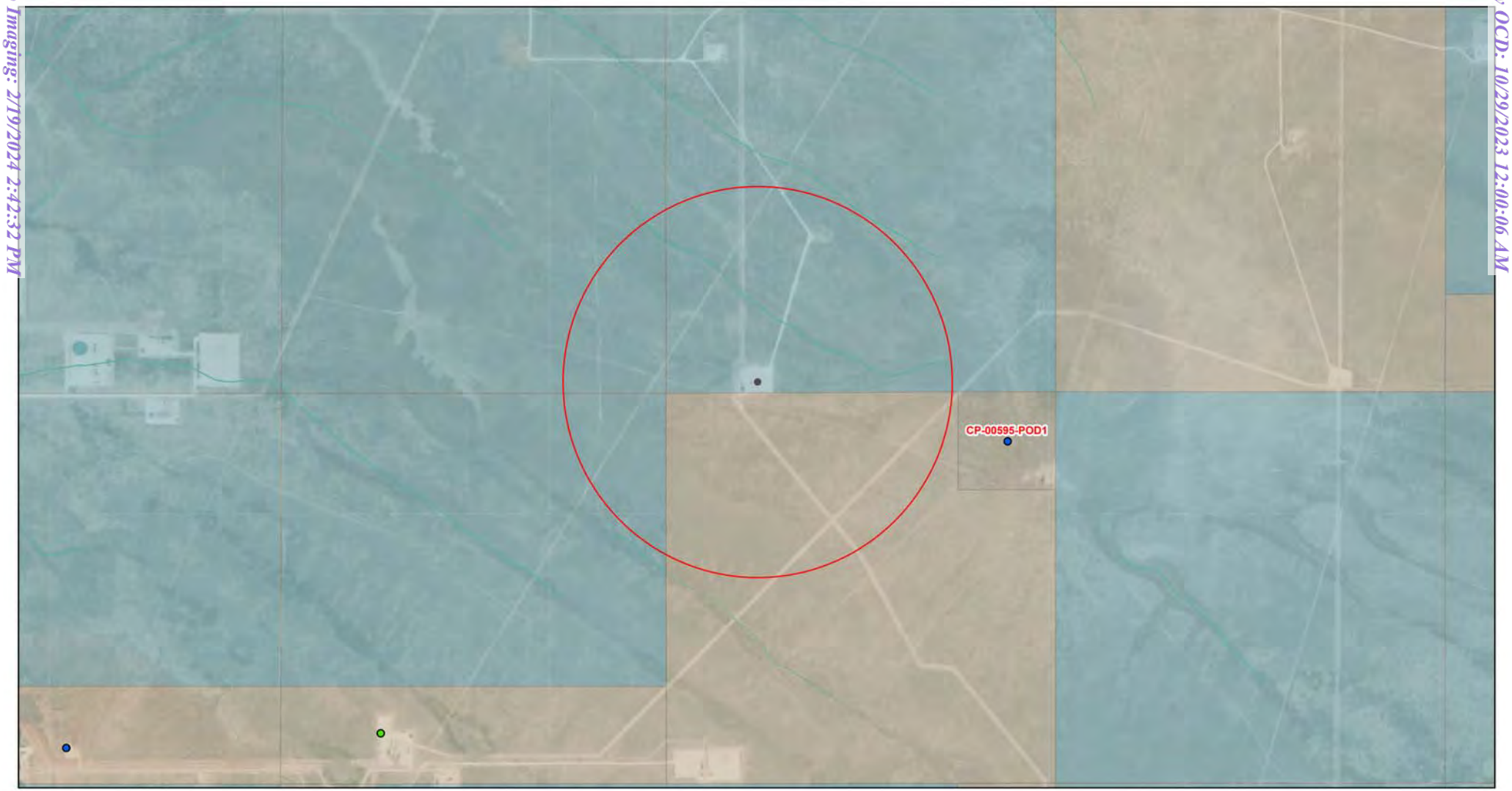
New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

Antler 17 State 1BS #002H

Karst Potential Map

OSE POD Locations Map



8/3/2023, 2:17:47 PM

GIS WATERS PODs
- Active
- Pending
- OSE District Boundary

Water Right Regulations
- Closure Area

New Mexico State Trust Lands
- Subsurface Estate

- Both Estates
- SiteBoundaries

NHD Flowlines
- Artificial Path
- Stream River

1:18,056

0 0.17 0.35 0.7 mi

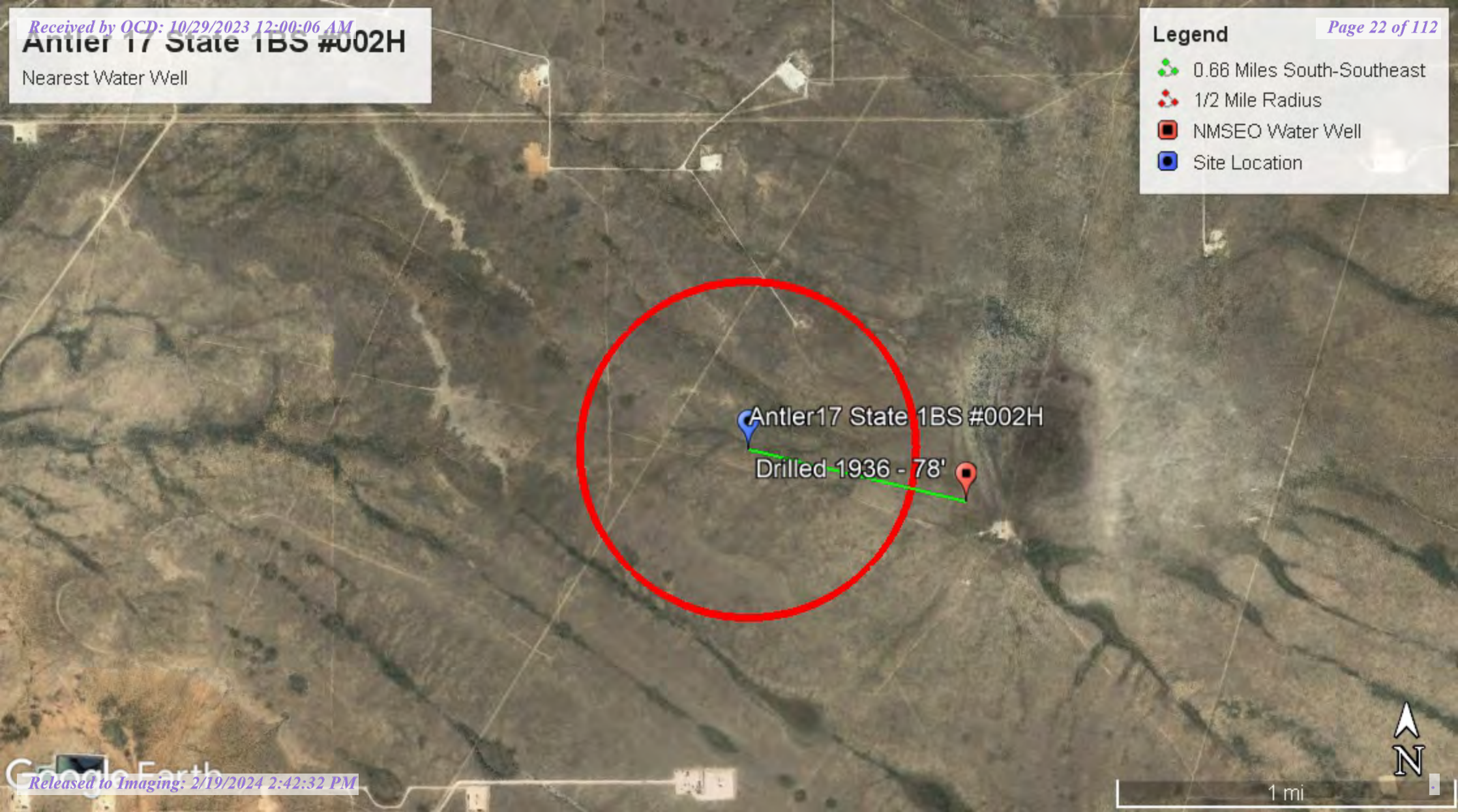
0 0.3 0.6 1.2 km

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Web Generated Map
Map is generated by web users.

Antler 17 State 1BS #002H

Nearest Water Well



SF

Revised December 1975

80227
19

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

CAPITAN BASIN
BASIN NAME

Declaration No. CP-595 Date received April 17, 1979 '79 APR 20 PM 3 00

STATE ENGINEER OFFICE
SANTA FE, N.M. 87501

STATEMENT

1. Name of Declarant THE MERCHANT LIVESTOCK COMPANY
   Mailing Address P.O. Box 548 Carlsbad
   County of Eddy, State of New Mexico
2. Source of water supply shallow
   (artesian or shallow water aquifer)
3. Describe well location under one of the following subheadings:
   a. ____ ¼ NE ¼ NE ¼ of Sec. 20 Twp. 22 S Rge. 35 E N.M.P.M., in Lea County.
   b. Tract No. ____ of Map No. ____ of the ____.
   c. X = ____ feet, Y = ____ feet, N. M. Coordinate System ____ Zone in the ____ Grant.
   On land owned by ____.
4. Description of well: date drilled 1936 driller ____ depth 96' feet.
   outside diameter of casing 6 5/8 inches; original capacity ____ gal. per min.; present capacity 2 gal. per min.; pumping lift ____ feet; static water level 78 feet (above) (below) land surface;
   make and type of pump ____
   make, type, horsepower, etc., of power plant ____
   Fractional or percentage interest claimed in well 100%
5. Quantity of water appropriated and beneficially used ~~XXXXXXXXXXXX~~ up to 3 (acre feet per annum)
   for stock water purposes.
6. Acreage actually irrigated ____ acres, located and described as follows (describe only lands actually irrigated):

Subdivision	Sec.	Twp.	Range	Acres Irrigated	Owner
				stock only	The ~~Merchant Lives~~tock Co.

(Note: location of well and acreage actually irrigated must be shown on plat on reverse side.)

STATE ENGINEER OFFICE
ROSWELL, N. M.
'79 APR 17 AM 8 02

7. Water was first applied to beneficial use ____ month ____ day 1936 year and since that time has been used fully and continuously on all of the above described lands or for the above described purposes except as follows: ____
8. Additional statements or explanations ____
   name of well - Cotton

I, J. D. Merchant, Jr. President being first duly sworn upon my oath, depose and say that the above is a full and complete statement prepared in accordance with the instructions on the reverse side of this form and submitted in evidence of ownership of a valid underground water right, that I have carefully read each and all of the items contained therein and that the same are true to the best of my knowledge and belief.

THE MERCHANT LIVESTOCK CO., declarant.
by: J. D. Merchant, Jr., President

Subscribed and sworn to before me this 12th day of April, A.D. 19 79

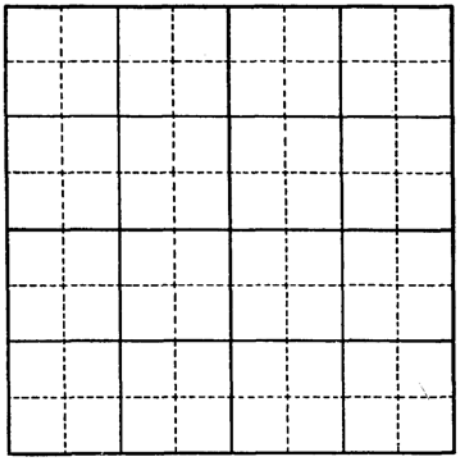
My commission expires March 2, 1980 Notary Public

FILED

UNDER NEW MEXICO LAW A DECLARATION IS ONLY A STATEMENT OF DECLARANT'S CLAIM. ACCEPTANCE FOR FILING DOES NOT CONSTITUTE APPROVAL OR REJECTION OF THE CLAIM.

Locate well and areas actually irrigated as accurately as possible on following plat:

Section (s) _____, Township _____, Range _____ N. M. P. M.



INSTRUCTIONS

Declaration shall be executed (preferably typewritten) in triplicate and must be accompanied by a $1.00 filing fee. Each of triplicate copies must be properly signed and attested.

A separate declaration must be filed for each well in use.

All blanks shall be filled out fully. Required information which cannot be sworn to by declarant shall be supplied by affidavit of person or persons familiar with the facts and shall be submitted herewith.

Secs. 1-3. Complete all blanks.

Sec. 4. Fill out all blanks applicable as fully as possible.

Sec. 5. Irrigation use shall be stated in acre feet of water per acre per year applied on the land. If used for domestic, municipal. or other purposes, state total quantity in acre feet used annually.

Sec. 6. Describe only the acreage actually irrigated. When necessary to clearly define irrigated acreages, describe to nearest 2½ acre subdivision. If located on unsurveyed lands. describe by legal supdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily-located natural object.

Sec. 7. Explain and give dates as nearly as possible of any years when all or part of acreage claimed was not irrigated.

Sec. 8. If well irrigates or supplies supplemental water to any other land than that described above, or if land is also irrigated from any other source, explain under this section. Give any other data necessary to fully describe water right.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

April 17, 1979

Files: CP-584; CP-585; CP-586; CP-587; CP-588;
CP-589; CP-590; CP-591; CP-592; CP-593;
CP-594; CP-595; CP-596; CP-597; CP-598;
CP-599; CP-600; CP-601; CP-602

The Merchant Livestock Company
P. O. Box 548
Carlsbad, NM 88220

Gentlemen:

Enclosed are your copies of Declarations of Owner of Underground Water Right as numbered above, which have been filed for record in the office of the State Engineer.

Please refer to each individual number in all future correspondence concerning these declarations.

The filing of these declarations does not indicate affirmation or rejection of the statements contained therein.

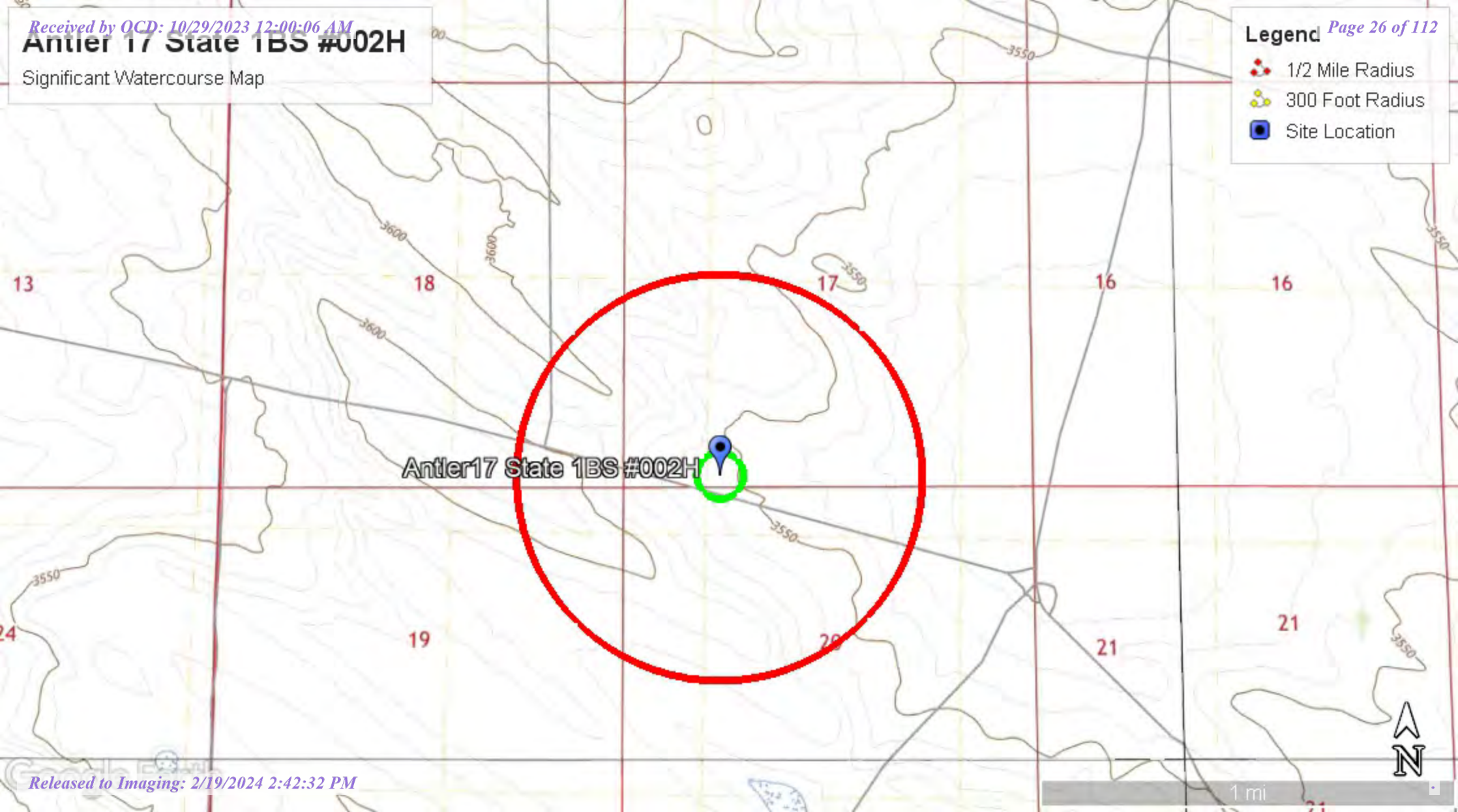
Yours very truly,

J. C. Groseclose
Basin Supervisor

JCG/fh
Encls.
cc: Santa Fe

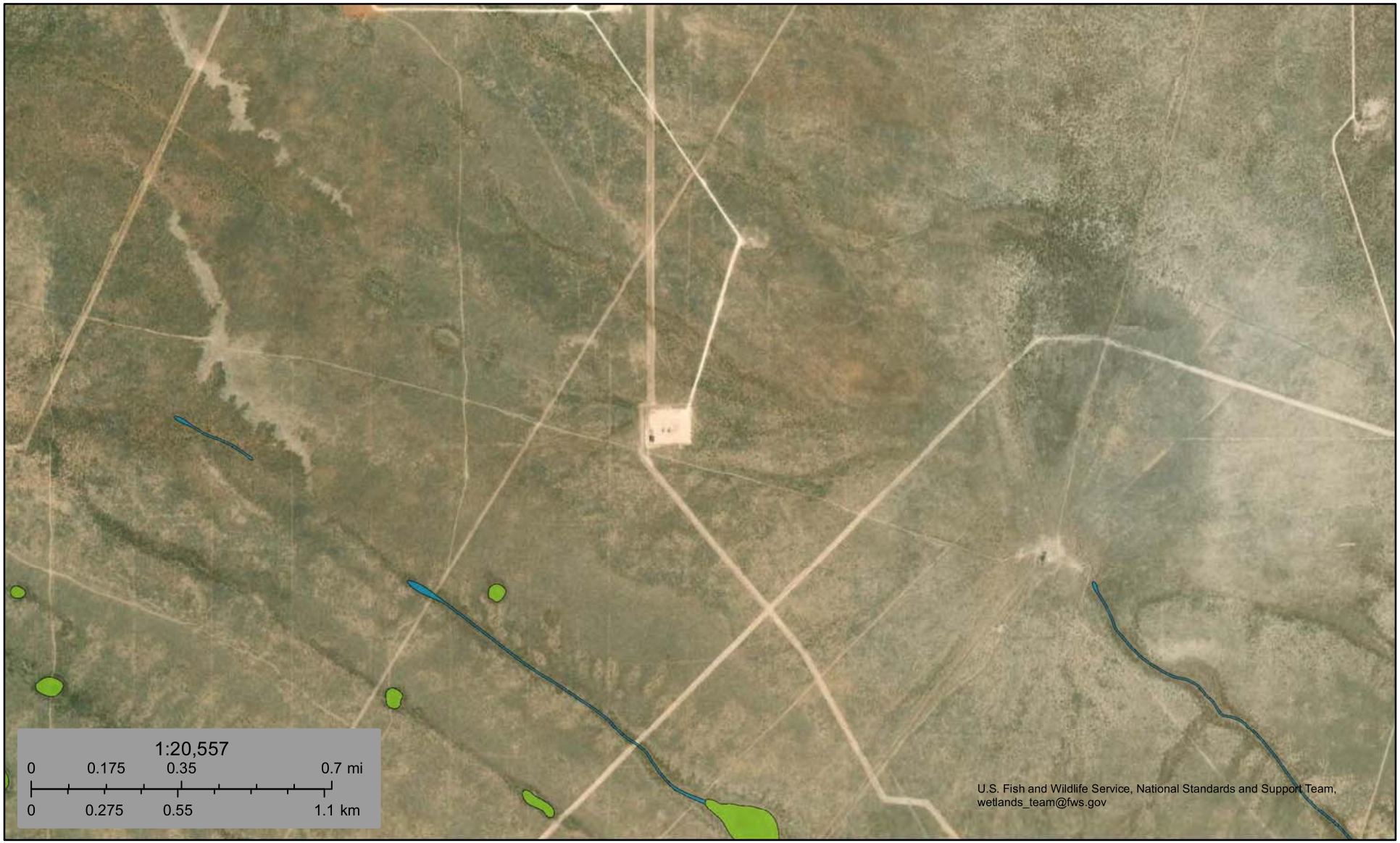
Antler 17 State 1BS #002H

Significant Watercourse Map



U.S. Fish and Wildlife Service
National Wetlands Inventory

Earthstone - Antler 17 State 1BS #002H



August 3, 2023

Wetlands

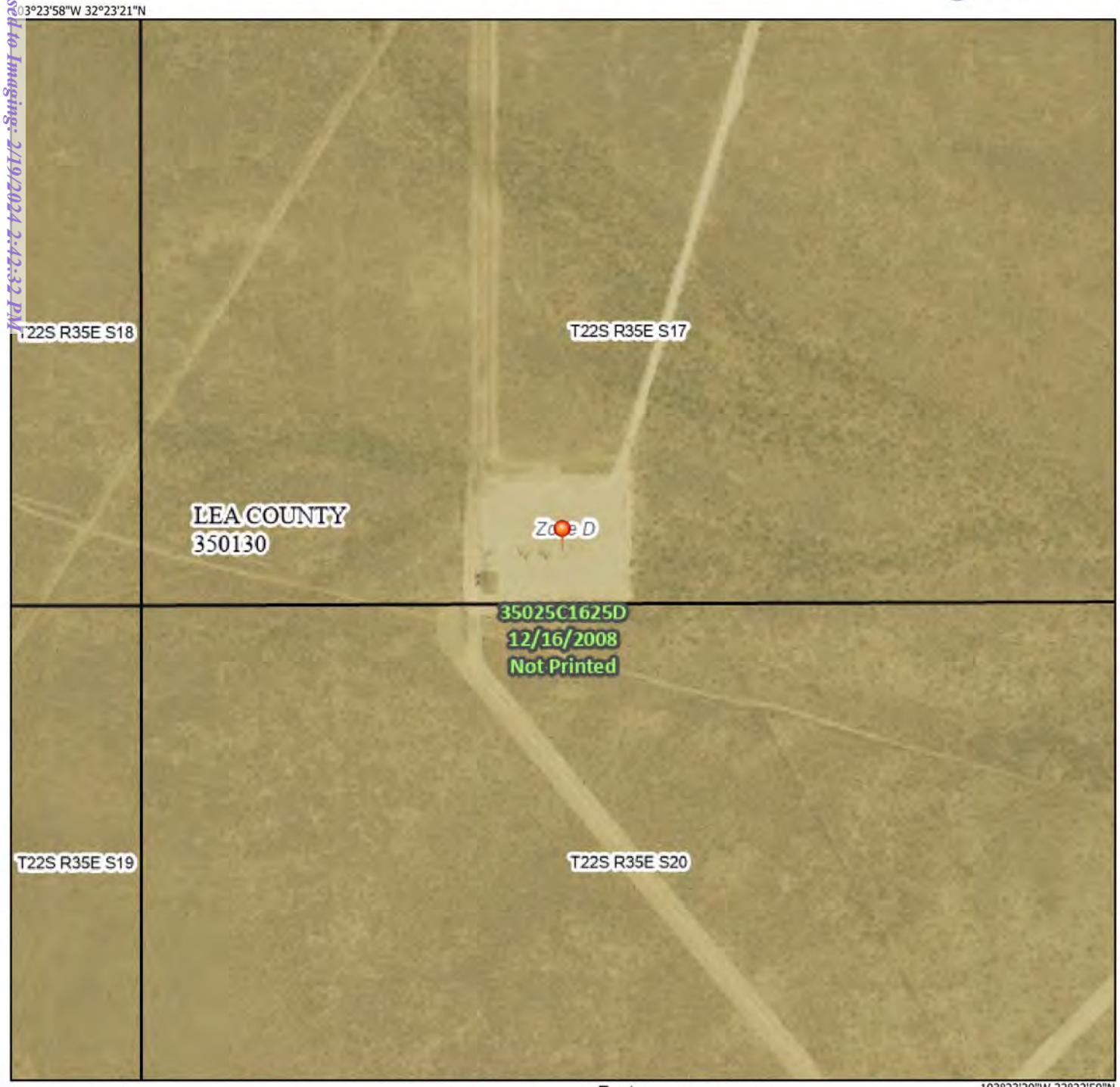
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

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

National Flood Hazard Layer FIRMette

FEMA



Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, A*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, A of 1% annual chance flood with avera depth less than one foot or with drain areas of less than one square mile *Zo*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zon*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/3/2023 at 3:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX B: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 1

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the release area.

Photograph No. 2

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the release area.

Photograph No. 3

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the release area.

PHOTOGRAPHIC LOG

Earthstone Operating, LLC

Photograph No. 4

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the excavation area.

Photograph No. 5

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the excavation area.

Photograph No. 6

Facility: Antler 17 State 1BS #002H

County: Lea County, New Mexico

Description:
View of the excavation area.

APPENDIX C: CONFIRMATION SAMPLING NOTIFICATION

Becky Haskell

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, September 6, 2023 4:22 PM
To: Ricardo Baer; Enviro, OCD, EMNRD
Cc: Becky Haskell; NTG Env Carlsbad; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Antler 17 State 1BS #002H

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

Hi Ricardo,

The OCD has received your notification. 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.

Thank you,

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, September 6, 2023 2:23 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] Antler 17 State 1BS #002H

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

Good Afternoon,

NTGE, on behalf of Earthstone Resources Operating, LLC, respectfully submits notification of sampling to be conducted at the below location.

Antler 17 State 1BS #002H
M-17-22S-35E
Lea, NM
nRM2028946301

Sampling will begin at 8:00 a.m. on Monday, September 11, 2023, and continue through Friday, September 15, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²
Project Cordinator
(432) 556-2006
Rbaer@ntglobal.com

APPENDIX D: LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jeff Kindley
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 7/25/2023 11:09:44 AM

JOB DESCRIPTION

Earthstone-Antler 17 State 1BS #002H
SDG NUMBER Lea Co., NM

JOB NUMBER

880-30832-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

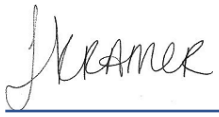
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
7/25/2023 11:09:44 AM

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

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
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.
S1-	Surrogate recovery exceeds control limits, low biased.
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: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Job ID: 880-30832-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-30832-1

Receipt
The samples were received on 7/17/2023 4:32 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

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: L-1 (Surface) (880-30832-1), L-1 (0-6") (880-30832-2), L-2 (Surface) (880-30832-3), L-2 (0-6") (880-30832-4), L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6), L-3 (Surface) (880-30832-7), L-3 (0-6") (880-30832-8), L-3 (6"-1') (880-30832-9), L-3 (1-1.5') (880-30832-10) and L-3 (2-2.5') (880-30832-11).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: L-1 (0-6") (880-30832-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6) and L-3 (2-2.5') (880-30832-11). 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: Surrogate recovery for the following samples were outside control limits: L-1 (Surface) (880-30832-1), L-1 (0-6") (880-30832-2), L-2 (Surface) (880-30832-3), L-2 (6"-1') (880-30832-5), L-2 (1-1.5') (880-30832-6), L-3 (Surface) (880-30832-7) and (880-30795-A-64-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: L-3 (6"-1') (880-30832-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57953 and analytical batch 880-58292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is 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: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-1 (Surface)

Lab Sample ID: 880-30832-1
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 11:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/18/23 08:19	07/18/23 11:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/18/23 08:19*	*07/18/23 11:30*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*07/18/23 08:19*	*07/18/23 11:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			07/18/23 17:09	1

Method: SW846 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			07/25/23 11:30	1

Method: SW846 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		07/18/23 13:34	07/24/23 22:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 22:16	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/24/23 22:16*	*1*
o-Terphenyl	*75*		*70 - 130*	*07/18/23 13:34*	*07/24/23 22:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		5.02		mg/Kg			07/18/23 13:04	1

Client Sample ID: L-1 (0-6")

Lab Sample ID: 880-30832-2
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 11:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/18/23 08:19	07/18/23 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*07/18/23 08:19*	*07/18/23 11:50*	*1*
1,4-Difluorobenzene (Surr)	*65*	*S1-*	*70 - 130*	*07/18/23 08:19*	*07/18/23 11:50*	*1*

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-1 (0-6")

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-2
Matrix: Solid

Method: TAL SOP 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			07/18/23 17:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/24/23 22:38*	*1*
o-Terphenyl	*74*		*70 - 130*	*07/18/23 13:34*	*07/24/23 22:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**163**		4.95		mg/Kg			07/18/23 13:09	1

Client Sample ID: L-2 (Surface)

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 12:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/18/23 08:19*	*07/18/23 12:11*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*07/18/23 08:19*	*07/18/23 12:11*	*1*

Method: TAL SOP 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			07/18/23 17:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**528**		50.4		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1
Diesel Range Organics (Over C10-C28)	**528**		50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1

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Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-2 (Surface)

Lab Sample ID: 880-30832-3
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/24/23 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/24/23 22:59*	*1*
o-Terphenyl	*72*		*70 - 130*	*07/18/23 13:34*	*07/24/23 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7690**		101		mg/Kg			07/18/23 13:24	20

Client Sample ID: L-2 (0-6")

Lab Sample ID: 880-30832-4
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/18/23 08:19	07/18/23 16:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/18/23 08:19	07/18/23 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*07/18/23 08:19*	*07/18/23 16:56*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/18/23 08:19*	*07/18/23 16:56*	*1*

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**75.1**		50.1		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1
Diesel Range Organics (Over C10-C28)	**75.1**		50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		07/18/23 13:34	07/24/23 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*07/18/23 13:34*	*07/24/23 23:20*	*1*
o-Terphenyl	*78*		*70 - 130*	*07/18/23 13:34*	*07/24/23 23:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		4.99		mg/Kg			07/18/23 13:29	1

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-2 (6"-1')

Lab Sample ID: 880-30832-5
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 17:17	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/18/23 08:19*	*07/18/23 17:17*	*1*
1,4-Difluorobenzene (Surr)	*68*	*S1-*	*70 - 130*	*07/18/23 08:19*	*07/18/23 17:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/19/23 09:37	1

Method: SW846 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			07/25/23 11:30	1

Method: SW846 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		07/18/23 13:34	07/24/23 23:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/24/23 23:41	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/24/23 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/24/23 23:41*	*1*
o-Terphenyl	*74*		*70 - 130*	*07/18/23 13:34*	*07/24/23 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1130**		24.9		mg/Kg			07/18/23 13:34	5

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 17:37	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*07/18/23 08:19*	*07/18/23 17:37*	*1*
1,4-Difluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*07/18/23 08:19*	*07/18/23 17:37*	*1*

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 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			07/25/23 11:30	1

Method: SW846 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		07/18/23 13:34	07/25/23 00:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/18/23 13:34	07/25/23 00:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/18/23 13:34	07/25/23 00:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/25/23 00:02*	*1*
o-Terphenyl	*73*		*70 - 130*	*07/18/23 13:34*	*07/25/23 00:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**588**		4.96		mg/Kg			07/18/23 13:39	1

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/18/23 08:19	07/18/23 17:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/18/23 08:19	07/18/23 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*07/18/23 08:19*	*07/18/23 17:58*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*07/18/23 08:19*	*07/18/23 17:58*	*1*

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1590**		49.8		mg/Kg			07/25/23 11:30	1

Method: SW846 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		07/18/23 13:34	07/25/23 00:22	1
Diesel Range Organics (Over C10-C28)	**1590**		49.8		mg/Kg		07/18/23 13:34	07/25/23 00:22	1

Eurofins Midland

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/18/23 13:34	07/25/23 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*14*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/25/23 00:22*	*1*
o-Terphenyl	*17*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/25/23 00:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2360**		25.1		mg/Kg			07/18/23 13:44	5

Client Sample ID: L-3 (0-6")

Lab Sample ID: 880-30832-8
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 18:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/18/23 08:19	07/18/23 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:18*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:18*	*1*

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**740**		50.2		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1
Diesel Range Organics (Over C10-C28)	**740**		50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		07/18/23 13:34	07/25/23 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/18/23 13:34*	*07/25/23 00:43*	*1*
o-Terphenyl	*95*		*70 - 130*	*07/18/23 13:34*	*07/25/23 00:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**800**		4.97		mg/Kg			07/18/23 13:49	1

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (6"-1')

Lab Sample ID: 880-30832-9
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/18/23 08:19	07/18/23 18:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/18/23 08:19	07/18/23 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:39*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.4**		50.4		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1
Diesel Range Organics (Over C10-C28)	**55.4**		50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		07/18/23 13:34	07/25/23 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*07/18/23 13:34*	*07/25/23 01:03*	*1*
o-Terphenyl	*75*		*70 - 130*	*07/18/23 13:34*	*07/25/23 01:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**501**		5.00		mg/Kg			07/18/23 14:04	1

Client Sample ID: L-3 (1-1.5')

Lab Sample ID: 880-30832-10
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/18/23 08:19	07/18/23 18:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/18/23 08:19	07/18/23 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:59*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*07/18/23 08:19*	*07/18/23 18:59*	*1*

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (1-1.5')

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-10
Matrix: Solid

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**133**		49.7		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1
Diesel Range Organics (Over C10-C28)	**133**		49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/18/23 13:36	07/25/23 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*07/18/23 13:36*	*07/25/23 01:43*	*1*
o-Terphenyl	*80*		*70 - 130*	*07/18/23 13:36*	*07/25/23 01:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		4.99		mg/Kg			07/18/23 14:08	1

Client Sample ID: L-3 (2-2.5')

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 19:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/18/23 08:19	07/18/23 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*07/18/23 08:19*	*07/18/23 19:20*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*07/18/23 08:19*	*07/18/23 19:20*	*1*

Method: TAL SOP 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			07/19/23 09:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			07/25/23 11:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1

Client Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (2-2.5')

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-11

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		07/18/23 13:36	07/25/23 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*07/18/23 13:36*	*07/25/23 02:03*	*1*
o-Terphenyl	*81*		*70 - 130*	*07/18/23 13:36*	*07/25/23 02:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**115**		5.01		mg/Kg			07/18/23 14:24	1

Surrogate Summary

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

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)
880-30832-1	L-1 (Surface)	90	81
880-30832-1 MS	L-1 (Surface)	120	100
880-30832-1 MSD	L-1 (Surface)	114	86
880-30832-2	L-1 (0-6")	88	65 S1-
880-30832-3	L-2 (Surface)	91	75
880-30832-4	L-2 (0-6")	73	74
880-30832-5	L-2 (6"-1')	84	68 S1-
880-30832-6	L-2 (1-1.5')	87	62 S1-
880-30832-7	L-3 (Surface)	99	86
880-30832-8	L-3 (0-6")	91	74
880-30832-9	L-3 (6"-1')	90	73
880-30832-10	L-3 (1-1.5')	90	74
880-30832-11	L-3 (2-2.5')	84	66 S1-
LCS 880-57901/1-A	Lab Control Sample	117	101
LCSD 880-57901/2-A	Lab Control Sample Dup	118	105
MB 880-57901/5-A	Method Blank	75	89

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)
880-30795-A-64-C MS	Matrix Spike	75	72
880-30795-A-64-D MSD	Matrix Spike Duplicate	76	70
880-30832-1	L-1 (Surface)	68 S1-	75
880-30832-2	L-1 (0-6")	67 S1-	74
880-30832-3	L-2 (Surface)	67 S1-	72
880-30832-4	L-2 (0-6")	71	78
880-30832-5	L-2 (6"-1')	66 S1-	74
880-30832-6	L-2 (1-1.5')	68 S1-	73
880-30832-7	L-3 (Surface)	14 S1-	17 S1-
880-30832-8	L-3 (0-6")	88	95
880-30832-9	L-3 (6"-1')	66 S1-	75
880-30832-10	L-3 (1-1.5')	72	80
880-30832-11	L-3 (2-2.5')	74	81
LCS 880-57953/2-A	Lab Control Sample	84	85
LCSD 880-57953/3-A	Lab Control Sample Dup	84	83
MB 880-57953/1-A	Method Blank	82	93

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57901/5-A
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/18/23 08:19	07/18/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/18/23 08:19	07/18/23 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*07/18/23 08:19*	*07/18/23 11:08*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*07/18/23 08:19*	*07/18/23 11:08*	*1*

Lab Sample ID: LCS 880-57901/1-A
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1024		mg/Kg		102	70 - 130
Toluene	0.100	0.09011		mg/Kg		90	70 - 130
Ethylbenzene	0.100	0.1083		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2282		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-57901/2-A
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57901

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1098		mg/Kg		110	70 - 130	7	35
Toluene	0.100	0.09791		mg/Kg		98	70 - 130	8	35
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2404		mg/Kg		120	70 - 130	5	35
o-Xylene	0.100	0.1187		mg/Kg		119	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-30832-1 MS
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: L-1 (Surface)
Prep Type: Total/NA
Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.1065		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.0994	0.09528		mg/Kg		96	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

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

Lab Sample ID: 880-30832-1 MS
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: L-1 (Surface)
Prep Type: Total/NA
Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.0994	0.1091		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2281		mg/Kg		115	70 - 130
o-Xylene	<0.00198	U	0.0994	0.1127		mg/Kg		113	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-30832-1 MSD
Matrix: Solid
Analysis Batch: 57899

Client Sample ID: L-1 (Surface)
Prep Type: Total/NA
Prep Batch: 57901

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1035		mg/Kg		104	70 - 130	3	35
Toluene	<0.00198	U	0.0998	0.09464		mg/Kg		95	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.0998	0.1076		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2220		mg/Kg		111	70 - 130	3	35
o-Xylene	<0.00198	U	0.0998	0.1094		mg/Kg		110	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

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

Lab Sample ID: MB 880-57953/1-A
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 57953

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		07/18/23 13:34	07/24/23 20:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 20:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/18/23 13:34	07/24/23 20:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/18/23 13:34*	*07/24/23 20:09*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/18/23 13:34*	*07/24/23 20:09*	*1*

Lab Sample ID: LCS 880-57953/2-A
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	834.0		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	877.2		mg/Kg		88	70 - 130

Eurofins Midland

QC Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-57953/2-A
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57953

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: LCSD 880-57953/3-A
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57953

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	825.8		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	875.4		mg/Kg		88	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-30795-A-64-C MS
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	680.4	F1	mg/Kg		64	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	792.9		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-30795-A-64-D MSD
Matrix: Solid
Analysis Batch: 58292

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57953

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	<49.6	U F1	1010	699.4	F1	mg/Kg		66	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	789.2		mg/Kg		77	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	70		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57908/1-A
Matrix: Solid
Analysis Batch: 57957

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			07/18/23 12:24	1

Lab Sample ID: LCS 880-57908/2-A
Matrix: Solid
Analysis Batch: 57957

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.5		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-57908/3-A
Matrix: Solid
Analysis Batch: 57957

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	242.5		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-30832-8 MS
Matrix: Solid
Analysis Batch: 57957

Client Sample ID: L-3 (0-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	800		249	1023		mg/Kg		90	90 - 110		

Lab Sample ID: 880-30832-8 MSD
Matrix: Solid
Analysis Batch: 57957

Client Sample ID: L-3 (0-6")
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	800		249	1024		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

GC VOA

Analysis Batch: 57899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8021B	57901
880-30832-2	L-1 (0-6")	Total/NA	Solid	8021B	57901
880-30832-3	L-2 (Surface)	Total/NA	Solid	8021B	57901
880-30832-4	L-2 (0-6")	Total/NA	Solid	8021B	57901
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8021B	57901
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8021B	57901
880-30832-7	L-3 (Surface)	Total/NA	Solid	8021B	57901
880-30832-8	L-3 (0-6")	Total/NA	Solid	8021B	57901
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8021B	57901
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8021B	57901
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8021B	57901
MB 880-57901/5-A	Method Blank	Total/NA	Solid	8021B	57901
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	8021B	57901
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57901
880-30832-1 MS	L-1 (Surface)	Total/NA	Solid	8021B	57901
880-30832-1 MSD	L-1 (Surface)	Total/NA	Solid	8021B	57901

Prep Batch: 57901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	5035	
880-30832-2	L-1 (0-6")	Total/NA	Solid	5035	
880-30832-3	L-2 (Surface)	Total/NA	Solid	5035	
880-30832-4	L-2 (0-6")	Total/NA	Solid	5035	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	5035	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	5035	
880-30832-7	L-3 (Surface)	Total/NA	Solid	5035	
880-30832-8	L-3 (0-6")	Total/NA	Solid	5035	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	5035	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	5035	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	5035	
MB 880-57901/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57901/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57901/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30832-1 MS	L-1 (Surface)	Total/NA	Solid	5035	
880-30832-1 MSD	L-1 (Surface)	Total/NA	Solid	5035	

Analysis Batch: 57983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-2	L-1 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-3	L-2 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-4	L-2 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	Total BTEX	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	Total BTEX	
880-30832-7	L-3 (Surface)	Total/NA	Solid	Total BTEX	
880-30832-8	L-3 (0-6")	Total/NA	Solid	Total BTEX	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	Total BTEX	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	Total BTEX	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

GC Semi VOA

Prep Batch: 57953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015NM Prep	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015NM Prep	
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015NM Prep	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015NM Prep	
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015B NM	57953
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015B NM	57953
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015B NM	57953
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015B NM	57953
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015B NM	57953
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015B NM	57953
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015B NM	57953
MB 880-57953/1-A	Method Blank	Total/NA	Solid	8015B NM	57953
LCS 880-57953/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57953
LCSD 880-57953/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57953
880-30795-A-64-C MS	Matrix Spike	Total/NA	Solid	8015B NM	57953
880-30795-A-64-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57953

Analysis Batch: 58471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Total/NA	Solid	8015 NM	
880-30832-2	L-1 (0-6")	Total/NA	Solid	8015 NM	
880-30832-3	L-2 (Surface)	Total/NA	Solid	8015 NM	
880-30832-4	L-2 (0-6")	Total/NA	Solid	8015 NM	
880-30832-5	L-2 (6"-1')	Total/NA	Solid	8015 NM	
880-30832-6	L-2 (1-1.5')	Total/NA	Solid	8015 NM	
880-30832-7	L-3 (Surface)	Total/NA	Solid	8015 NM	
880-30832-8	L-3 (0-6")	Total/NA	Solid	8015 NM	
880-30832-9	L-3 (6"-1')	Total/NA	Solid	8015 NM	
880-30832-10	L-3 (1-1.5')	Total/NA	Solid	8015 NM	
880-30832-11	L-3 (2-2.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

HPLC/IC

Leach Batch: 57908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Soluble	Solid	DI Leach	
880-30832-2	L-1 (0-6")	Soluble	Solid	DI Leach	
880-30832-3	L-2 (Surface)	Soluble	Solid	DI Leach	
880-30832-4	L-2 (0-6")	Soluble	Solid	DI Leach	
880-30832-5	L-2 (6"-1')	Soluble	Solid	DI Leach	
880-30832-6	L-2 (1-1.5')	Soluble	Solid	DI Leach	
880-30832-7	L-3 (Surface)	Soluble	Solid	DI Leach	
880-30832-8	L-3 (0-6")	Soluble	Solid	DI Leach	
880-30832-9	L-3 (6"-1')	Soluble	Solid	DI Leach	
880-30832-10	L-3 (1-1.5')	Soluble	Solid	DI Leach	
880-30832-11	L-3 (2-2.5')	Soluble	Solid	DI Leach	
MB 880-57908/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57908/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57908/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-30832-8 MS	L-3 (0-6")	Soluble	Solid	DI Leach	
880-30832-8 MSD	L-3 (0-6")	Soluble	Solid	DI Leach	

Analysis Batch: 57957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30832-1	L-1 (Surface)	Soluble	Solid	300.0	57908
880-30832-2	L-1 (0-6")	Soluble	Solid	300.0	57908
880-30832-3	L-2 (Surface)	Soluble	Solid	300.0	57908
880-30832-4	L-2 (0-6")	Soluble	Solid	300.0	57908
880-30832-5	L-2 (6"-1')	Soluble	Solid	300.0	57908
880-30832-6	L-2 (1-1.5')	Soluble	Solid	300.0	57908
880-30832-7	L-3 (Surface)	Soluble	Solid	300.0	57908
880-30832-8	L-3 (0-6")	Soluble	Solid	300.0	57908
880-30832-9	L-3 (6"-1')	Soluble	Solid	300.0	57908
880-30832-10	L-3 (1-1.5')	Soluble	Solid	300.0	57908
880-30832-11	L-3 (2-2.5')	Soluble	Solid	300.0	57908
MB 880-57908/1-A	Method Blank	Soluble	Solid	300.0	57908
LCS 880-57908/2-A	Lab Control Sample	Soluble	Solid	300.0	57908
LCSD 880-57908/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57908
880-30832-8 MS	L-3 (0-6")	Soluble	Solid	300.0	57908
880-30832-8 MSD	L-3 (0-6")	Soluble	Solid	300.0	57908

Lab Chronicle

Client: NT Global
Job ID: 880-30832-1
Project/Site: Earthstone-Antler 17 State 1BS #002H
SDG: Lea Co., NM

Client Sample ID: L-1 (Surface)
Lab Sample ID: 880-30832-1
Date Collected: 07/14/23 00:00
Matrix: Solid
Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 11:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:04	CH	EET MID

Client Sample ID: L-1 (0-6")
Lab Sample ID: 880-30832-2
Date Collected: 07/14/23 00:00
Matrix: Solid
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 11:50	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:38	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:09	CH	EET MID

Client Sample ID: L-2 (Surface)
Lab Sample ID: 880-30832-3
Date Collected: 07/14/23 00:00
Matrix: Solid
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 12:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/18/23 17:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 22:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		20			57957	07/18/23 13:24	CH	EET MID

Client Sample ID: L-2 (0-6")
Lab Sample ID: 880-30832-4
Date Collected: 07/14/23 00:00
Matrix: Solid
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 16:56	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID

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Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-2 (0-6")

Lab Sample ID: 880-30832-4
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

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			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 23:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:29	CH	EET MID

Client Sample ID: L-2 (6"-1')

Lab Sample ID: 880-30832-5
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:17	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/24/23 23:41	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			57957	07/18/23 13:34	CH	EET MID

Client Sample ID: L-2 (1-1.5')

Lab Sample ID: 880-30832-6
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:39	CH	EET MID

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 17:58	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:22	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (Surface)

Lab Sample ID: 880-30832-7
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		5			57957	07/18/23 13:44	CH	EET MID

Client Sample ID: L-3 (0-6")

Lab Sample ID: 880-30832-8
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 00:43	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 13:49	CH	EET MID

Client Sample ID: L-3 (6"-1')

Lab Sample ID: 880-30832-9
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:39	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	57953	07/18/23 13:34	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 01:03	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:04	CH	EET MID

Client Sample ID: L-3 (1-1.5')

Lab Sample ID: 880-30832-10
Matrix: Solid
Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

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	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 18:59	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57953	07/18/23 13:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 01:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:08	CH	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Client Sample ID: L-3 (2-2.5')

Date Collected: 07/14/23 00:00
Date Received: 07/17/23 16:32

Lab Sample ID: 880-30832-11

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			4.99 g	5 mL	57901	07/18/23 08:19	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57899	07/18/23 19:20	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57983	07/19/23 09:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			58471	07/25/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	57953	07/18/23 13:36	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58292	07/25/23 02:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57908	07/18/23 09:21	KS	EET MID
Soluble	Analysis	300.0		1			57957	07/18/23 14:24	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: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

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	T104704400-23-26	06-30-24

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: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

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	EPA	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

EPA = US Environmental Protection Agency

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: Earthstone-Antler 17 State 1BS #002H

Job ID: 880-30832-1
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-30832-1	L-1 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-2	L-1 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-3	L-2 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-4	L-2 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-5	L-2 (6"-1')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-6	L-2 (1-1.5')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-7	L-3 (Surface)	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-8	L-3 (0-6")	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-9	L-3 (6"-1')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-10	L-3 (1-1.5')	Solid	07/14/23 00:00	07/17/23 16:32
880-30832-11	L-3 (2-2.5')	Solid	07/14/23 00:00	07/17/23 16:32

Chain of Custody

NTG ENVIRONMENTAL

880-30832 Chain of Custody

7/25/2023

Page __1__ of __2__

Project Manager:	Jeff Kindley	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name	Earthstone Energy
Address:	701 Tradewinds Blvd, Suite C	Address:	600 N Marienfeld Suite 1000
City, State ZIP	Midland, TX 79706	City, State ZIP:	Midland, Texas 79701
Phone:	432-967-6544	Email:	jkindley@ntglobal.com bhaskell@ntglobal.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:	Earthstone - Antler 17 State 1BS #002H	Turn Around	
Project Number:	237580	☐ Routine ☑ Rush	
Project Location	Lea Co , NM	Due Date.	24 HOUR
Sampler's Name:	Grant Gardner	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:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-.30
Sample Custody Seals.	Yes No N/A	Temperature Reading.	4.3
Total Containers		Corrected Temperature	4.0

ANALYSIS REQUEST

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	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300	HOLD	Sample Comments
L-1 (surface)	7/14/2023	-	X	-	Grab	1	X	X	X		
L-1 (0-6")	7/14/2023	-	X	-	Grab	1	X	X	X		
L-2 (surface)	7/14/2023	-	X	-	Grab	1	X	X	X		
L-2 (0-6")	7/14/2023		X	-	Grab	1	X	X	X		
L-2 (6"-1')	7/14/2023		X	-	Grab	1	X	X	X		
L-2 (1-1 5')	7/14/2023		X	-	Grab	1	X	X	X		
L-3 (surface)	7/14/2023		X	-	Grab	1	X	X	X		
L-3 (0-6")	7/14/2023		X	-	Grab	1	X	X	X		
L-3 (6"-1')	7/14/2023		X	-	Grab	1	X	X	X		
L-3 (1-1 5')	7/14/2023		X	-	Grab	1	X	X	X		

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
Grant Gardner		7/17/23 1103	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Chain of Custody

NTG ENVIRONMENTAL

Loc: 880
30832

Work Order No: [illegible]

7/25/2023

Page 2 of 2

Project Manager	Jeff Kindley	Bill to (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name	Earthstone Energy
Address:	701 Tradewinds Blvd, Suite C	Address:	600 N Marienfeld Suite 1000
City, State ZIP	Midland, TX 79706	City, State ZIP	Midland, Texas 79701
Phone:	432-967-6544	Email:	jkindley@ntglobal.com bhaskell@ntglobal.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:	Earthstone - Antler 17 State 1BS #002H	Turn Around	
Project Number:	237580	☐ Routine	☑ Rush
Project Location	Lea Co , NM	Due Date	24 HOUR
Sampler's Name:	Grant Gardner	TAT starts the day received by the lab if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			Wet Ice	
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:		Corrected Temperature:		

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride ~~4500~~ 300	HOLD
L-3 (2-2 5')	7/14/2023	-	X	-	Grab	1		X	X	X	

Parameters

Preservative Codes

None NO Dl 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

Sample Comments

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
Grant Gardner		7/17/23 1032	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-30832-1
SDG Number: Lea Co., NM

Login Number: 30832
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

August 09, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 STATE 2 BS

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 15:35.

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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 2 (SURFACE) (H234096-04)

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	08/07/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane *90.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *80.4 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 2 (6'') (H234096-05)

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	08/07/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane *85.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.1 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 2 (1') (H234096-06)

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	08/07/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane *86.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.7 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 2 (1.5') (H234096-07)

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	08/07/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/07/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/07/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/07/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/07/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/07/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/07/2023	ND					

Surrogate: 1-Chlorooctane *86.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.9 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 3 (SURFACE) (H234096-08)

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	08/08/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/08/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/08/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *84.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *75.1 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/02/2023	Sampling Date:	08/02/2023
Reported:	08/09/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H - 3 (6'') (H234096-09)

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	08/08/2023	ND	2.04	102	2.00	2.46	
Toluene*	<0.050	0.050	08/08/2023	ND	1.92	95.9	2.00	2.18	
Ethylbenzene*	<0.050	0.050	08/08/2023	ND	1.92	95.8	2.00	3.34	
Total Xylenes*	<0.150	0.150	08/08/2023	ND	5.61	93.5	6.00	2.67	
Total BTEX	<0.300	0.300	08/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/08/2023	ND	448	112	400	3.64	

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	08/08/2023	ND	167	83.5	200	1.24	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	167	83.3	200	1.86	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *81.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *72.8 %* *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: NTG Environmental
Project Manager: Becky Haskell
Address: 701 Tradewinds blvd.
City: Midland State: TX Zip: 79705
Phone #: 432-466-1915 Fax #:
Project #: 237580 Project Owner:
Project Name: Antler 17 State 2H
Project Location: Lea Co., NM
Sampler Name: Nick Hurt Grant Gardner

BILL TO
P.O. #:
Company: Earthstone
Attn: Chris Martin
Address: 600 N. Marienfeld, suite 1000
City: Midland
State: TX Zip: 79705
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 8021	TPH 8015	Chlorides 4500.0	
H234094																		
1	~~H-1 (Surface)~~	G	1			X							8.2.23		X	X	X	
2	~~H-1 (6")~~	G	1			X							"		X	X	X	
3	~~H-1 (1')~~	G	1			X							"		X	X	X	
4	H-2 (Surface)	G	1			X							"		X	X	X	
5	H-2 (6")	G	1			X							"		X	X	X	
6	H-2 (1')	G	1			X							"		X	X	X	
7	H-2 (1.5')	G	1			X							"		X	X	X	
8	H-3 (Surface)	G	1			X							"		X	X	X	
9	H-3 (6")	G	1			X							"		X	X	X	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Grant Gardner Date: 8.2.23 Time: 1535 Received By:
Relinquished By: Date: Time: Received By:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.1 Corrected Temp. °C
Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No
CHECKED BY: (Initials) TO

Verbal Result: ☐ Yes ☐ No Add'l Phone #:
All Results are emailed. Please provide Email address:
Chris Martin Becky Haskell
REMARKS: * Removed due to breakage. TO. 8/2/23

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID ~~#113~~ #140
Correction Factor ~~-0.6°C~~ TO. 8/2/23
Bacteria (only) Sample Condition: Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No
Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

August 10, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 STATE 2 BS

Enclosed are the results of analyses for samples received by the laboratory on 08/03/23 14:40.

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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (SURFACE) (H234133-01)

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	08/09/2023	ND	1.97	98.4	2.00	5.36	
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.6 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	08/08/2023	ND	416	104	400	7.41	

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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (6'') (H234133-02)

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	08/09/2023	ND	1.97	98.4	2.00	5.36	
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	08/08/2023	ND	416	104	400	7.41	

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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *86.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.9 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (1') (H234133-03)

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	08/09/2023	ND	1.97	98.4	2.00	5.36	
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *86.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.7 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (1.5') (H234133-04)

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	08/09/2023	ND	1.97	98.4	2.00	5.36	
Toluene*	<0.050	0.050	08/09/2023	ND	2.15	107	2.00	3.03	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.22	111	2.00	2.21	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.86	114	6.00	2.30	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *96.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *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
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (2') (H234133-05)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *90.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *97.7 %* *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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (2.5') (H234133-06)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

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Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 1 (3') (H234133-07)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 2 (2') (H234133-08)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *96.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

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Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 2 (2.5') (H234133-09)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *95.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 2 (3') (H234133-10)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *96.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 3 (1') (H234133-11)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	156	78.1	200	4.78	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	170	85.1	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *92.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *102 %* *49.1-148*

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CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 3 (1.5') (H234133-12)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *83.7 %* *48.2-134*

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

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CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 3 (2') (H234133-13)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *80.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.4 %* *49.1-148*

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Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 3 (2.5') (H234133-14)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *84.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.4 %* *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

Analytical Results For:

NTG ENVIRONMENTAL
BECKY HASKELL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706
Fax To:

Received:	08/03/2023	Sampling Date:	08/03/2023
Reported:	08/10/2023	Sampling Type:	Soil
Project Name:	ANTLER 17 STATE 2 BS	Sampling Condition:	Cool & Intact
Project Number:	237580	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE		

Sample ID: H - 3 (3') (H234133-15)

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	08/09/2023	ND	2.19	109	2.00	6.95	
Toluene*	<0.050	0.050	08/09/2023	ND	2.21	110	2.00	6.61	
Ethylbenzene*	<0.050	0.050	08/09/2023	ND	2.25	113	2.00	8.24	
Total Xylenes*	<0.150	0.150	08/09/2023	ND	6.94	116	6.00	8.38	
Total BTEX	<0.300	0.300	08/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/08/2023	ND	432	108	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	08/08/2023	ND	161	80.6	200	5.10	
DRO >C10-C28*	<10.0	10.0	08/08/2023	ND	169	84.3	200	1.96	
EXT DRO >C28-C36	<10.0	10.0	08/08/2023	ND					

Surrogate: 1-Chlorooctane *81.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.1 %* *49.1-148*

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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

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Page 1/2

CARDINAL Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: XTO Energy		BILL TO	
Project Manager: Becky Hale Roskelly		P.O. #:	
Address: 209 W McKay St		Company: Earthstone	
City: Carlsbad	State: NM Zip: 88220	Attn: Chris Martinez	
Phone #:	Fax #:	Address:	
Project #: 237580	Project Owner:	City:	
Project Name: Antler 17 State 2BS		State: Zip:	
Project Location:		Phone #:	
Sampler Name:		Fax #:	

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
H234133														
1	H-1 (Surface)	G	1			X					X		8/3/23	1120
2	H-1 (.6')	G	1			X					X			1125
3	H-1 (1')	G	1			X					X			1130
4	H-1 (1.5')	G	1			X					X			1135
5	H-1 (2')	G	1			X					X			1140
6	H-1 (2.5')	G	1			X					X			1145
7	H-1 (3')	G	1			X					X			1150
8	H-2 (2')	G	1			X					X			1155
9	H-2 (2.5')	G	1			X					X			1200
10	H-2 (3')	G	1			X					X			1205

ANALYSIS REQUEST: BTEX, TPH, CHLORIDE

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-3-23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1440		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 4.8	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☒ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C			Thermometer ID #140 Correction Factor 0°C

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

FORM-006 R 3.4 07/11/23

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	
Project Manager:	
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	
Sampler Name:	

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

BTEX
TPH
CHLORIDES

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
H234133														
11	H-3 (1')	G	1			x					x		8/3/23	1210
12	H-3 (1.5')	G	1			x					x			1215
13	H-3 (2')	G	1			x					x			1220
14	H-3 (2.5')	G	1			x					x			1230
15	H-3 (3')	G	1			x					x			1235

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Relinquished By:	Date: 8-3-23 Time: 1440	Received By:	
Relinquished By:	Date: Time:	Received By:	

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

REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C 4.8
Corrected Temp. °C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) AO

Turnaround Time: Standard ☒ Rush ☐

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

Thermometer ID #140
Correction Factor 0°C

FORM-006 R 3.4 07/11/23

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

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September 19, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: ANTLER 17 IBS 002

Enclosed are the results of analyses for samples received by the laboratory on 09/12/23 13:20.

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 (2')	H234923-01	Soil	12-Sep-23 10:00	12-Sep-23 13:20
CS - 2 (2')	H234923-02	Soil	12-Sep-23 10:05	12-Sep-23 13:20
CS - 3 (3')	H234923-03	Soil	12-Sep-23 10:10	12-Sep-23 13:20
SW - 1 (0-2')	H234923-04	Soil	12-Sep-23 10:15	12-Sep-23 13:20
SW - 2 (0-2')	H234923-05	Soil	12-Sep-23 10:20	12-Sep-23 13:20
SW - 3 (0-2')	H234923-06	Soil	12-Sep-23 10:25	12-Sep-23 13:20
SW - 4 (0-3')	H234923-07	Soil	12-Sep-23 10:30	12-Sep-23 13:20
SW - 5 (2-3')	H234923-08	Soil	12-Sep-23 10:35	12-Sep-23 13:20

09/19/23 - Client clarified the project name. This is the revised report and will replace the one sent on 09/14/23.

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

CS - 1 (2')

H234923-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**240**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*112 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*80.2 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.4 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

CS - 2 (2')

H234923-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**368**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	**58.5**		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	**40.0**		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*88.0 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.6 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

CS - 3 (3')

H234923-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*112 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*85.4 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.3 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

SW - 1 (0-2')

H234923-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**432**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*86.8 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.8 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

SW - 2 (0-2')

H234923-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**448**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*83.1 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*87.7 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

SW - 3 (0-2')

H234923-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**224**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	**13.3**		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*81.8 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.9 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

SW - 4 (0-3')

H234923-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*115 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091227	MS	13-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*82.3 %*	*48.2-134*		*3091227*	MS	*13-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.0 %*	*49.1-148*		*3091227*	MS	*13-Sep-23*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

SW - 5 (2-3')

H234923-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**224**		16.0	mg/kg	4	3091402	AC	14-Sep-23	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3091223	JH/	13-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*3091223*	JH/	*13-Sep-23*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3091303	MS	14-Sep-23	8015B	
Surrogate: 1-Chlorooctane			*93.4 %*	*48.2-134*		*3091303*	MS	*14-Sep-23*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*3091303*	MS	*14-Sep-23*	*8015B*	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091402 - 1:4 DI Water										
Blank (3091402-BLK1)				Prepared & Analyzed: 14-Sep-23						
Chloride	ND	16.0	mg/kg							
LCS (3091402-BS1)				Prepared & Analyzed: 14-Sep-23						
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3091402-BSD1)				Prepared & Analyzed: 14-Sep-23						
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091223 - Volatiles										
Blank (3091223-BLK1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0569*		mg/kg	*0.0500*		*114*	*71.5-134*			
LCS (3091223-BS1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
Benzene	1.99	0.050	mg/kg	2.00		99.6	82.8-130			
Toluene	2.01	0.050	mg/kg	2.00		101	86-128			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	85.9-128			
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	89-129			
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.37	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0531*		mg/kg	*0.0500*		*106*	*71.5-134*			
LCS Dup (3091223-BSD1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
Benzene	1.96	0.050	mg/kg	2.00		97.9	82.8-130	1.68	15.8	
Toluene	1.94	0.050	mg/kg	2.00		97.0	86-128	3.53	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	1.77	16	
m,p-Xylene	4.19	0.100	mg/kg	4.00		105	89-129	1.72	16.2	
o-Xylene	2.05	0.050	mg/kg	2.00		102	86.1-125	3.01	16.7	
Total Xylenes	6.24	0.150	mg/kg	6.00		104	88.2-128	2.15	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0538*		mg/kg	*0.0500*		*108*	*71.5-134*			

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CARDINAL Laboratories

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091227 - General Prep - Organics										
Blank (3091227-BLK1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*46.5*		mg/kg	*50.0*		*92.9*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*50.6*		mg/kg	*50.0*		*101*	*49.1-148*			
LCS (3091227-BS1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
GRO C6-C10	197	10.0	mg/kg	200		98.6	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	400	10.0	mg/kg	400		100	77.6-123			
Surrogate: 1-Chlorooctane	*46.2*		mg/kg	*50.0*		*92.5*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*53.2*		mg/kg	*50.0*		*106*	*49.1-148*			
LCS Dup (3091227-BSD1)				Prepared: 12-Sep-23 Analyzed: 13-Sep-23						
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-123	3.33	17.7	
DRO >C10-C28	204	10.0	mg/kg	200		102	66.5-118	0.419	21	
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123	1.87	18.5	
Surrogate: 1-Chlorooctane	*46.2*		mg/kg	*50.0*		*92.5*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*51.9*		mg/kg	*50.0*		*104*	*49.1-148*			
Batch 3091303 - General Prep - Organics										
Blank (3091303-BLK1)				Prepared & Analyzed: 13-Sep-23						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*46.0*		mg/kg	*50.0*		*92.1*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*54.7*		mg/kg	*50.0*		*109*	*49.1-148*			

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Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: ANTLER 17 IBS 002 Project Number: NONE GIVEN Project Manager: BECKY HASKELL Fax To:	Reported: 19-Sep-23 10:00

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3091303 - General Prep - Organics										
LCS (3091303-BS1)				Prepared & Analyzed: 13-Sep-23						
GRO C6-C10	175	10.0	mg/kg	200		87.5	66.4-123			
DRO >C10-C28	198	10.0	mg/kg	200		98.8	66.5-118			
Total TPH C6-C28	373	10.0	mg/kg	400		93.1	77.6-123			
Surrogate: 1-Chlorooctane	*53.4*		mg/kg	*50.0*		*107*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*61.1*		mg/kg	*50.0*		*122*	*49.1-148*			
LCS Dup (3091303-BSD1)				Prepared & Analyzed: 13-Sep-23						
GRO C6-C10	181	10.0	mg/kg	200		90.6	66.4-123	3.56	17.7	
DRO >C10-C28	205	10.0	mg/kg	200		102	66.5-118	3.47	21	
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.6-123	3.51	18.5	
Surrogate: 1-Chlorooctane	*48.7*		mg/kg	*50.0*		*97.5*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*55.2*		mg/kg	*50.0*		*110*	*49.1-148*			

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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	**BILL TO**	
Project Manager:	Becky Haskel	P.O. #:	
Address:	209 W McKay st	Company:	
City:	Carlsbad	State: NM Zip: 88220	Attn:
Phone #:	432 924 8056	Fax #:	Address:
Project #:		Project Owner: Earthstone	City:
Project Name:	Antler 17 ~~Mos~~ 1B5 002		State: Zip:
Project Location:	Lea County		Phone #:
Sampler Name:	Tyler Lumbrell	9/15/23	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	TPH	BTEX
H234923																	
1	CS-1 (2')	C	1			X							9/12	10:00			
2	CS-2 (2')													10:05			
3	CS-3 (3')													10:10			
4	SW-1 (0-2')													10:15			
5	SW-2 (0-2')													10:20			
6	SW-3 (0-2')													10:25			
7	SW-4 (0-3')													10:30			
8	SW-5 (2-3')													10:35			

Relinquished By:	Date: 9-12	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1:18		All Results are emailed. Please provide Email address:
Relinquished By:	Date: 9/12/23	Received By:	REMARKS:
	Time: 13:20		
Delivered By: (Circle One)	Observed Temp. °C 2.1	Sample Condition Cool Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C	☑ Yes ☑ Yes ☐ No ☐ No	Turnaround Time: Standard ☑ Rush ☐
			Thermometer ID #140 Correction Factor 0°C
			Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ Yes ☐ No ☐ No
			Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.4 07/11/23

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

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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 280521

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 280521
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record. Remediation closure report previously submitted and approved by OCD (App ID 278556) on 12/28/2023.	2/19/2024