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	nAPP2305933526
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Earthstone Operating, LLC	OGRID 331165
Contact Name Chris Martin	Contact Telephone 432-253-9998 Ext. 2653
Contact email cmartin@earthstoneenergy.com	Incident # *(assigned by OCD)*
Contact mailing address 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.701532 Longitude 103.593537
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wapati 31 Federal #1	Site Type Heater Treater
Date Release Discovered 2/14/23	API# *(if applicable)* 30-025-35841

Unit Letter	Section	Township	Range	County
I	31	18S	34E	Lea

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 7	Volume Recovered (bbls) 5
☒ Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release A gasket on the heater treater leaked.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305933526
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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?

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

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

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

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

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

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

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

Printed Name: Rebecca Haskell Title: Senior Project Magager

Signature: Rebecca Haskell Date: 2/28/23

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305933526
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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305933526
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: ____Jeff Kindley_____ Title: _____Senior Project Manager_____

Signature: Jeff Kindley Date: _____05/04/23_____

email: _jkindley@ntglobal.com_____ Telephone: ___432-685-3898_____

OCD Only

Received by: Jocelyn Harimon Date: 05/15/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305933526
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

☒ Extents of contamination must be fully delineated.

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

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

Printed Name: Rebecca Haskell Title: Sr. Project Manager

Signature: Rebecca Haskell Date: 8/3/23

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

OCD Only

Received by: _____ Date: _____

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

Signature: Nelson Velez Date: 08/09/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2305933526
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: ___Jeffrey Kindley_ _____ Title: _Senior Project Manager_____

Signature: Jeff Kindley _____ Date: ___05/04/23_____

email: ___jkindley@ntglobal.com_____ Telephone: __432-685-3898_____

OCD Only

Received by: ____Jocelyn Harimon_____ Date: __05/15/2023____

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

May 12, 2023

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

Re: Site Characterization, Deferral Request, and Closure Report
Wapati 31 Fed 1
Earthstone Operating, LLC
Site Location: Unit I, S31, T18S, R34E
(Lat 32.701342º, Long -103.593537º)
Lea County, New Mexico
Incident ID: nAPP2305933526

1. Introduction

New Tech Global LLC (NTGE), on behalf of Earthstone Operating, LLC (Earthstone), has prepared this Site Characterization, Deferral Request, and Closure Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Wapati 31 Federal #1 (Site). The Site is located within Unit Letter I, Section 31 of Township 18 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.701342° N latitude and -103.593537° W Longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figures 1 and 2 depict the Site location.

2. Background

Based on the Release Notification C-141 Form, the release occurred on February 14, 2023, due to a gasket leaking on the heater treater. Approximately 7 barrels (bbls) of crude oil and 7 barrels (bbls) of produced water were released, of which 5 bbls of crude oil and 5 bbls of produced water were recovered for a net loss of 2 bbls of crude oil and produced water each. Upon discovery, the heater treater was shut-in, and the area secured. Fluids were recovered via a vacuum truck. Afterwards, the area was scraped, and the impacted soils were transported to an approved disposal facility. The release area is depicted on Figure 3. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nAPP2305933526 are attached to the front of this report.

3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources and or features within a ½-mile radius of the location. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance

boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map the site is located within a low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Attachment A.

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

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+MR	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. Initial Soil Delineation Assessment Summary and Findings

On February 21, 2023, NTGE conducted an initial site visit to document details related to the release. During the site visit NTGE collected five (5) sample points (AH-1 through AH-5) based on one (1) foot intervals from depths ranging from zero (0) to five (5) feet below ground surface (ft bgs) with a geotechnical hand auger. The samples were submitted to Eurofins Laboratory in Midland, Texas for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, total petroleum hydrocarbons (TPH) by method 8015 modified, and chloride by EPA method 300.0. Analytical results indicated soil samples AH-1, AH-2, and AH-5 exhibited Chloride concentrations above Table I Closure Criteria at zero (0) to five (5) feet bgs. Analytical results indicated that soil samples AH-1 and AH-2 exhibited TPH concentrations above Table I Closure Criteria at zero (0) to one (1) foot and zero (0) to six (6) inches bgs level respectively. In addition, the Benzene and Total BTEX exceeded the Table 1 Closure Criteria for soil sample AH-1 (0-1').

On March 23, 2023, NTGE conducted an additional delineation assessment whereby one (1) vertical sample point (VD) was collected from depths ranging from five (5) to six (6) ft bgs and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analysis indicated that all samples were below Table I Closure Criteria.

On March 27, 2023, NTGE conducted an additional delineation assessment whereby two (2) sample points (AH-2A and AH-5A) were collected from a depth of approximately one

(1) ft bgs and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analysis indicated that sample AH-2A exhibited TPH concentrations above Table 1 Closure Criteria.

On March 29, 2023, NTGE conducted an additional delineation assessment where one (1) sample point (AH-2B) was collected at a depth of one and a half (1.5) ft bgs and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analysis indicated that all samples exhibited concentrations below Table 1 Closure Criteria for BTEX, TPH, and chlorides. Figure 3 depicts the initial delineation sample locations, analytical results are provided on Table 1, Summary of Soil Analytical Data, while laboratory reports are included in Appendix D.

5. Excavation and Confirmation Sampling

Based on initial delineation assessments, Earthstone contracted Standard Safety and Supply (Standard) to perform remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. The release area was excavated to depths ranging from one (1) to one and half (1.5) ft bgs as depicted on Figure 4.

On March 27th, 2023, two (2) composite sidewall confirmation samples were collected from the excavation (SW-1 and SW-2) and submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX, TPH, and chloride. Analytical results indicated that sample SW-1 exhibited TPH concentrations above Table 1 Closure Criteria and would be further excavated.

On March 29th, 2023, two (2) composite sidewall confirmation samples were collected from the excavation (SW-1A and SW-3) and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analytical results indicated that SW-3 exhibited TPH concentrations above Table 1 Closure Criteria and would be further excavated.

On April 3rd, 2023, seven (7) bottom (CS-1 through CS-7) along with one (1) sidewall composite samples (SW-4) were collected and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analytical results indicated that all samples exhibited concentrations below Table 1 Closure Criteria.

On April 5th, 2023, five (5) bottom (CS-8 through CS-12) along with two (2) sidewall composite samples (SW-3A and SW-5) were collected and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analytical results indicated that CS-12 exhibited TPH concentrations above Table 1 Closure Criteria and would be further excavated.

On April 12th, 2023, one (1) bottom (CS-12A) along with one (1) sidewall composite samples (SW-6) were collected and submitted to Cardinal Laboratory in Hobbs, New Mexico for analyses of BTEX, TPH, and chloride. Analytical results indicated that all samples exhibited concentrations below Table 1 Closure Criteria.

All confirmation samples were collected from areas representing no greater than two hundred (200) square ft. Figure 4 depicts confirmation sample location, analytical results are provided on Table 1, Summary of Soil Analytical Data, and laboratory reports are provided in Appendix D. Sampling Notifications are attached in Appendix B and Site Photographs are provided in Appendix C.

6. Soils Disposition and Backfill Activities

Between April 17 and April 18, 2023, approximately 131.09 tons of impacted material was transported offsite for disposal at Lea Land, LLC located in Carlsbad, New Mexico. Manifests are available upon request and aren't included in this report due to the size of the file. Upon completion of the excavation, the site was backfilled with like-sourced materials and brought up to surface grade.

7. Closure and Deferral Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with NMOCD regulatory standards with the exception of the area around soil samples AH-1 and VD. The area around the vertical separator was excavated to a depth of approximately 1' to 1.5' bgs. However, further remediation of the area around soil samples AH-1 and VD was not feasible without destabilizing the integrity of the vertical separator. As such, approximately four (4) feet of impacted soil was left in-situ at the site within a surface area of approximately twenty-eight (28) feet wide and thirty-eight (38) feet in length. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone respectfully requests closure for nAPP2305933526 with deferral of soils left in-situ above NMOCD standards near soil samples AH-1 and VD, until time of abandonment or upgrade of equipment allows for accessibility to the area. The Release Notification, Site Assessment/Characterization, and Closure portion 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, PG
Senior Project Manager/Geologist

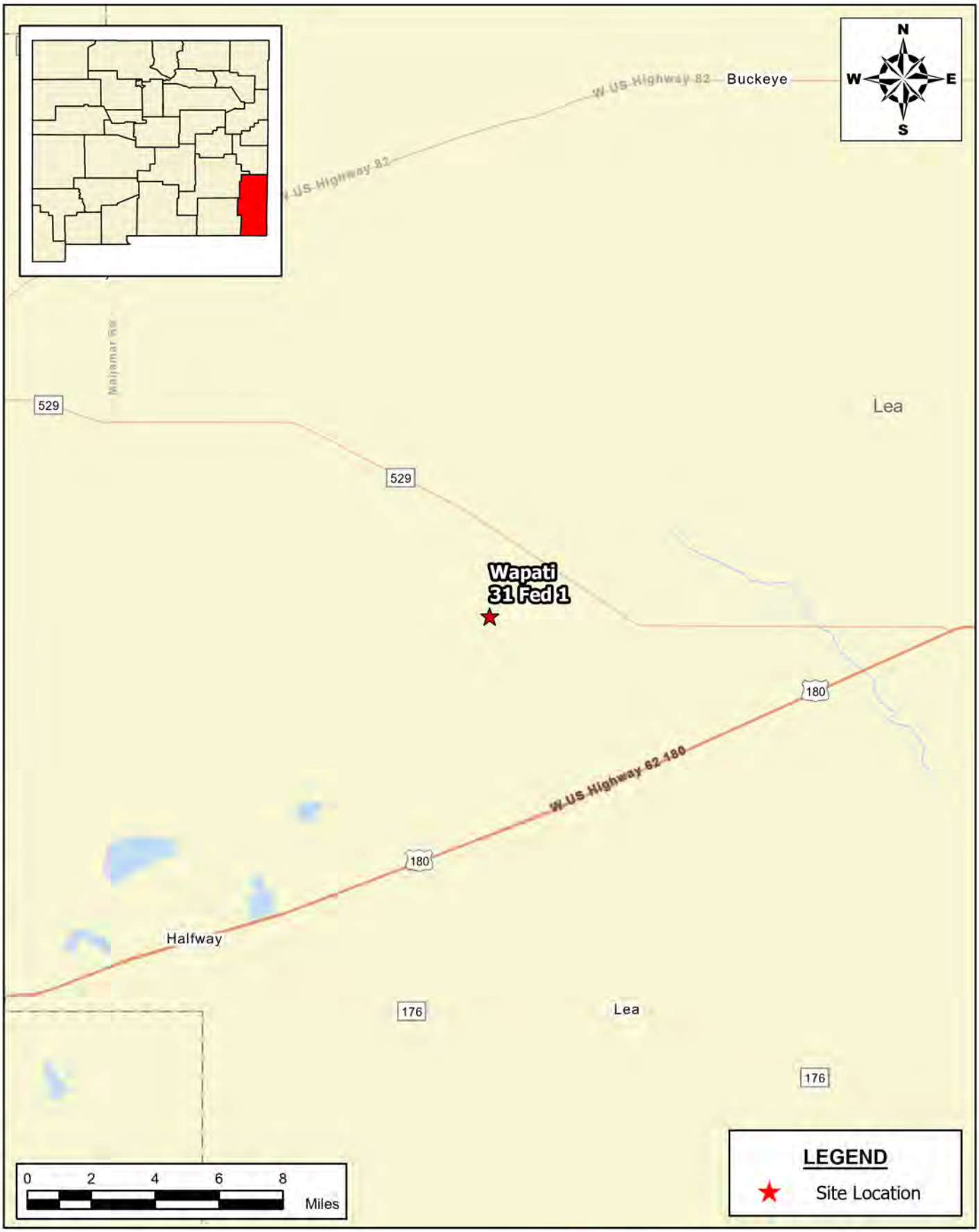
Attachments:

Received by OCD: 5/13/2023 12:00:22 AM

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

Released to Imaging: 8/9/2023 9:23:39 AM

FIGURES



SITE LOCATION MAP
EARTHSTONE OPERATING, LLC
WAPATI 31 FED 1
LEA COUNTY, NEW MEXICO
32.7013424, -103.5926658

SCALE: As Shown | Date: 2/22/2023 | PROJECT #: 237040

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**

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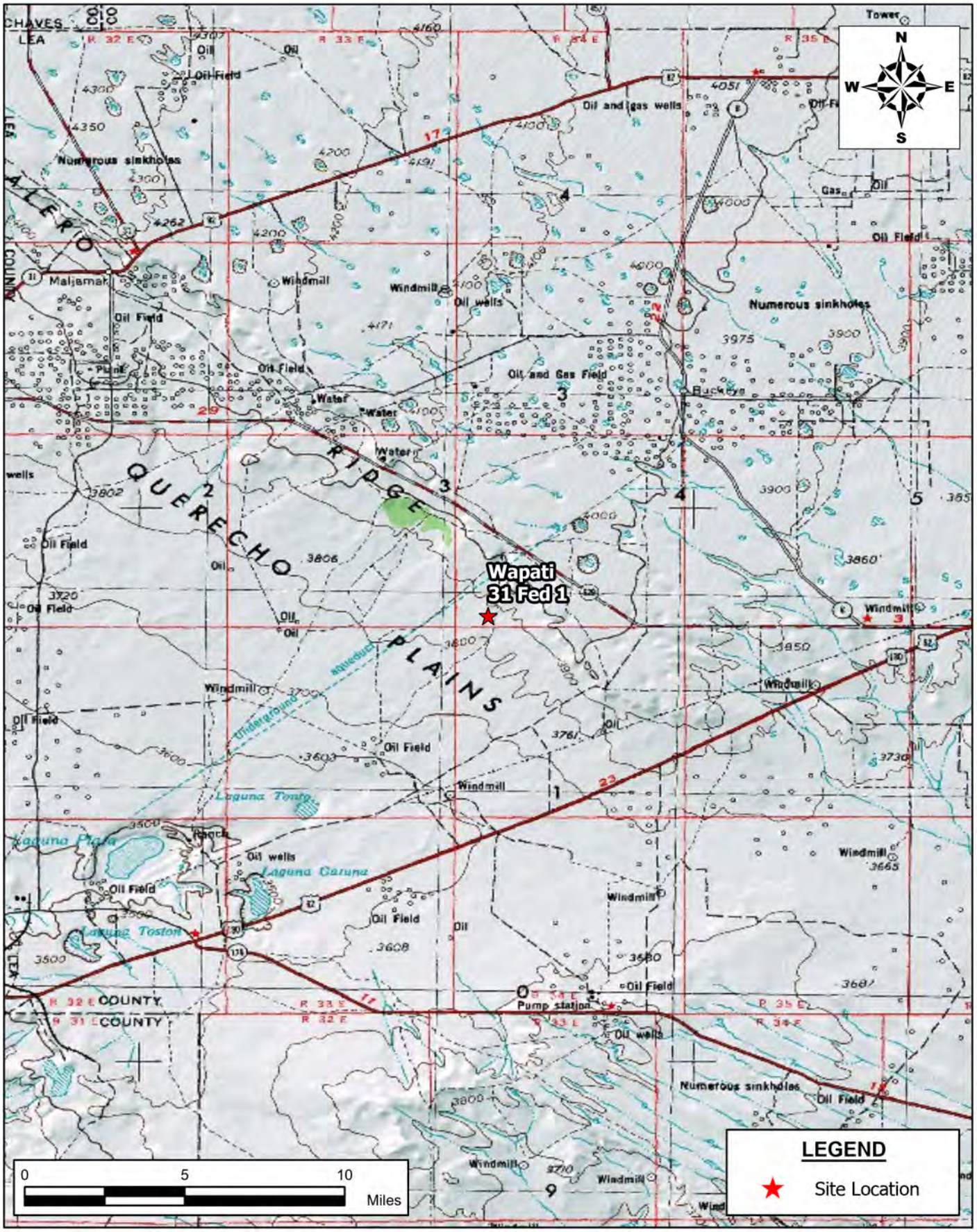

TOPOGRAPHIC MAP
EARTHSTONE OPERATING, LLC
WAPATI 31 FED 1
LEA COUNTY, NEW MEXICO
32.7013424, -103.5926658

SCALE: As Shown | Date: 2/22/2023 | PROJECT #: 237040

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 2
SHEET NUMBER:
1 of 1

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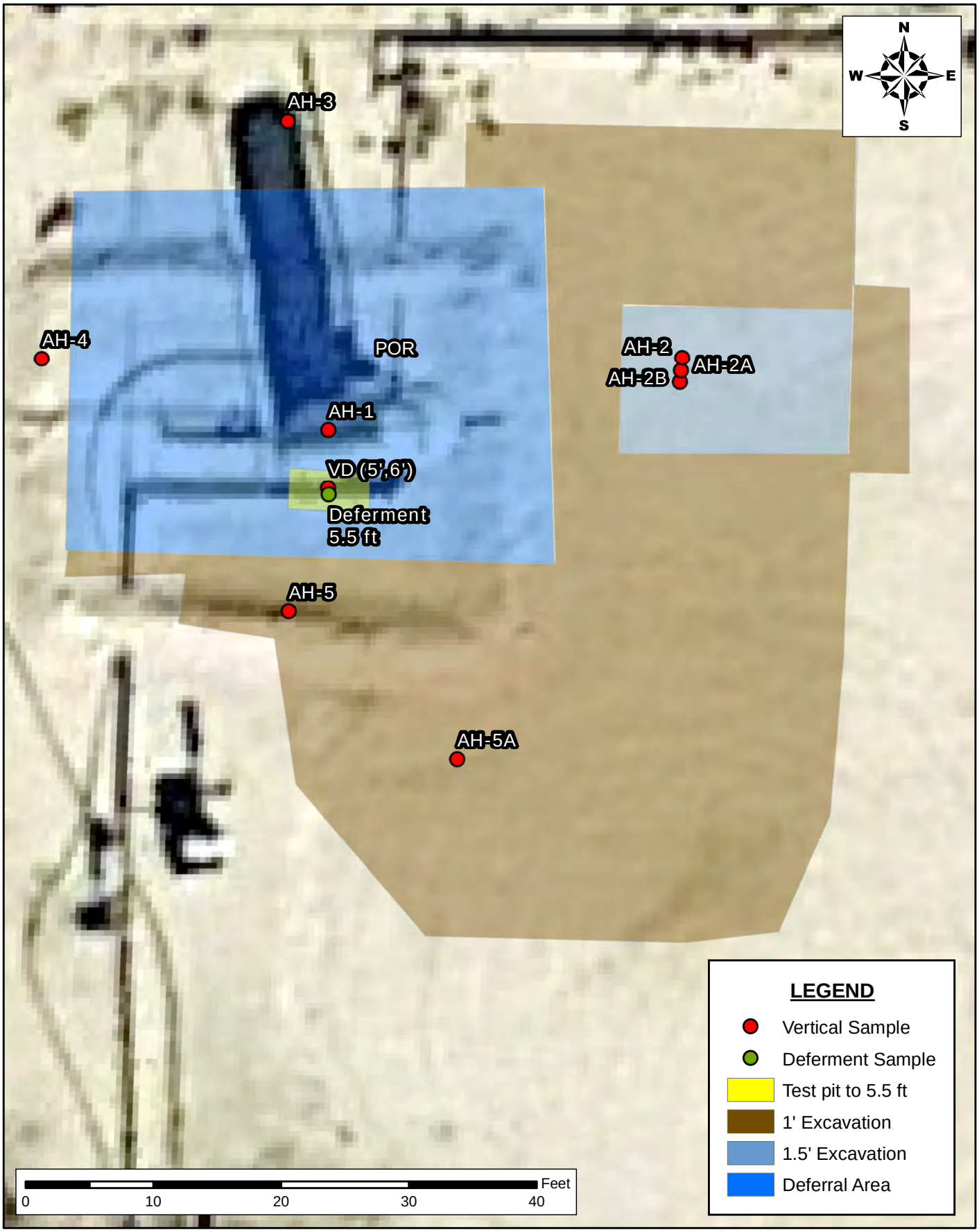

Intitial Assessment and Delineation Samples
Earthstone Energy
Wapati 31 Fed 1
Lea County, New Mexico
32.701518°, -103.593509°

SCALE: As Shown	DATE: 4/18/2023	PROJECT #: 237040

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

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

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

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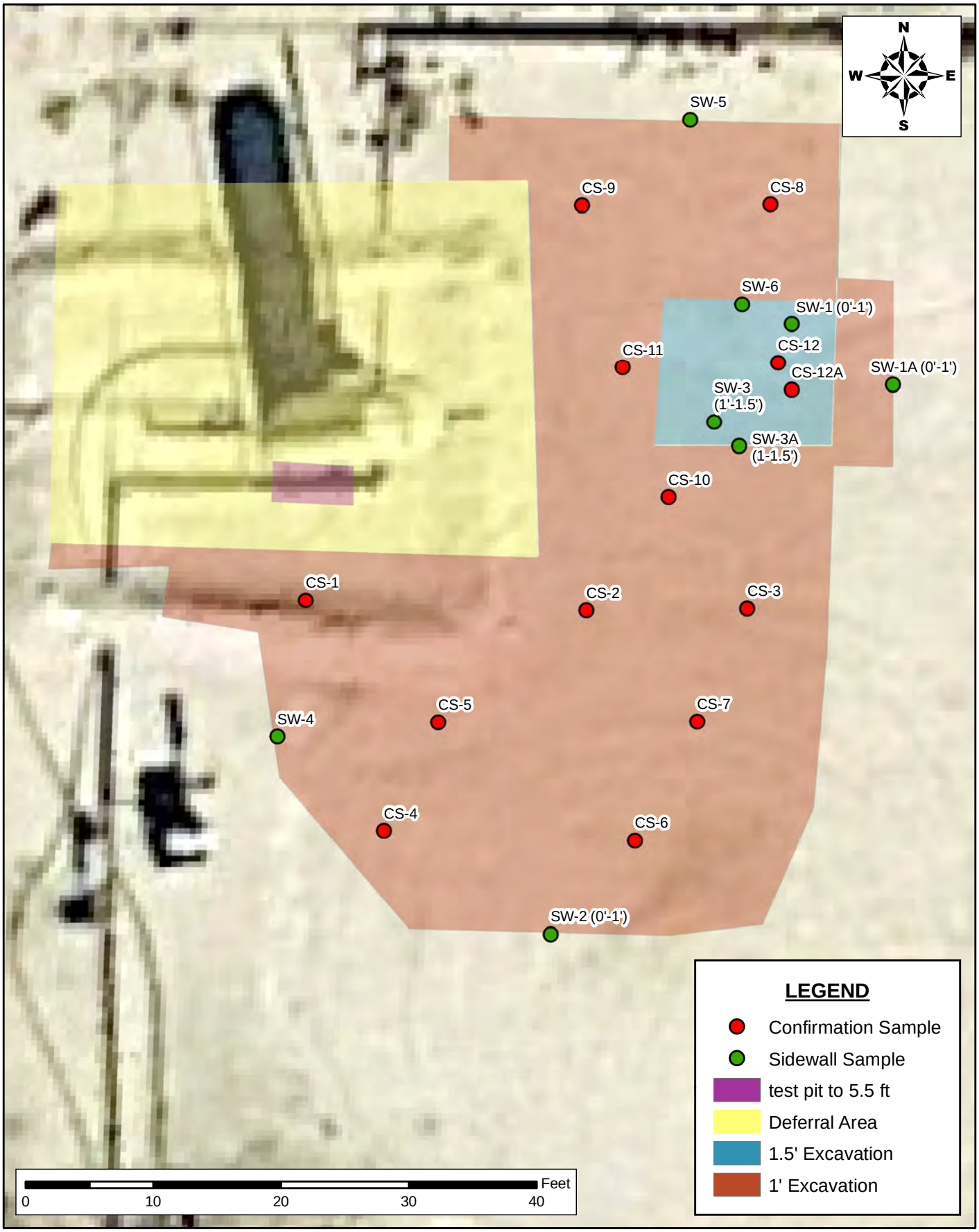

Confirmation Sample Locations
Earthstone Energy
Wapati 31 Fed 1
Lea County, New Mexico
32.701518°, -103.593509°

SCALE: As Shown	DATE: 4/18/2023	PROJECT #: 237040

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 4
SHEET NUMBER:
1 of 1

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TABLE

Table 1
Summary of Soil Analytical Data - Delineation Samples
Wapati 31 Fed 1
Earthstone Operating, LLC
Lea County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	TPH GRO (C6-C-10)	TPH DRO (C10-C28)	TPH GRO + DRO (C6-C28)	TPH MRO (C28-C35)	TPH Total GRO/DRO/MRO	Chloride
			(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
Initial Assessment/Delineation Samples													
AH-1	~~2/21/2023~~	~~(0-1')~~	~~33.7~~	~~273~~	~~198~~	~~229~~	~~734~~	~~3,710~~	~~5,130~~	~~8,840~~	~~648~~	~~9,490~~	~~6,980~~
	"	(1'-2')	0.022	0.0823	0.0864	0.0424	0.233	<49.9	<49.9	<49.9	<49.9	<49.9	**67.2**
	"	(2'-3')	<0.0198	<0.0198	<0.0198	<0.0396	<0.0396	<49.9	<49.9	<49.9	<49.9	<49.9	**526**
	"	(3'-4')	<0.0199	<0.0199	<0.0199	<0.0398	<0.0398	<49.9	<49.9	<49.9	<49.9	<49.9	**827**
	"	(4'-5')	<0.0200	<0.0200	<0.0200	<0.0399	<0.0399	<49.9	<49.9	<49.9	<49.9	<49.9	**912**
~~**AH-2**~~	~~2/21/2023~~	~~(0-0.5')~~	~~<0.0200~~	~~<0.0200~~	~~<0.0200~~	~~<0.0401~~	~~<0.0401~~	~~<50.0~~	~~268~~	~~268~~	~~63.1~~	~~931~~	~~1,100~~
~~**AH-2 A**~~	~~3/27/2023~~	~~(1')~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	~~<10.0~~	~~841~~	~~841~~	~~332~~	~~1,173~~	~~128~~
AH-2B	3/29/2023	(1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**
AH-3	2/21/2023	(0-0.5')	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
AH-4	2/21/2023	(0-0.5')	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96
~~**AH-5**~~	~~2/21/2023~~	~~(0-0.5')~~	~~<0.00199~~	~~0.00323~~	~~<0.00199~~	~~<0.00398~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~665~~
AH-5 A	3/27/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48.0**
VD (5')	3/23/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**448**
VD (6')	3/23/2023	6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**352**
Confirmation Samples													
~~**SW-1**~~	~~3/27/2023~~	~~(0-1')~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	~~<10.0~~	~~725~~	~~725~~	~~265~~	~~990~~	~~448~~
SW-1 A	3/29/2023	(0-1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
SW-2	3/27/2023	(0-1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**112**
~~**SW-3**~~	~~3/29/2023~~	~~(1'-1.5')~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	~~<10.0~~	~~274~~	~~274~~	~~117~~	~~391~~	~~160~~
SW-3A	4/5/2023	(1'-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**80**
SW-4	4/3/2023	(0-1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**26.4**	**26.4**	<10.0	**26.4**	**224**
SW-5	4/5/2023	(0-1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**13**	**13**	<10.0	**13**	**112**
SW-6	4/12/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**240**
CS-1	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**80**
CS-2	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**19**	**19**	<10.0	**19**	**208**
CS-3	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**28.4**	**28.4**	<10.1	**28.4**	**256**
CS-4	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
CS-5	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32**
CS-6	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**43.7**	**43.7**	**18.9**	**62.6**	**192**
CS-7	4/3/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**208**
CS-8	4/5/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
CS-9	4/5/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48**
CS-10	4/5/2023	(1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**304**
CS-11	4/5/2023	(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**128**
~~**CS-12**~~	~~4/5/2023~~	~~(1')~~	~~<0.050~~	~~<0.050~~	~~<0.050~~	~~<0.150~~	~~<0.300~~	~~<10.0~~	~~295~~	~~295~~	~~186~~	~~481~~	~~80~~
CS-12A	4/12/2023	(1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**240**

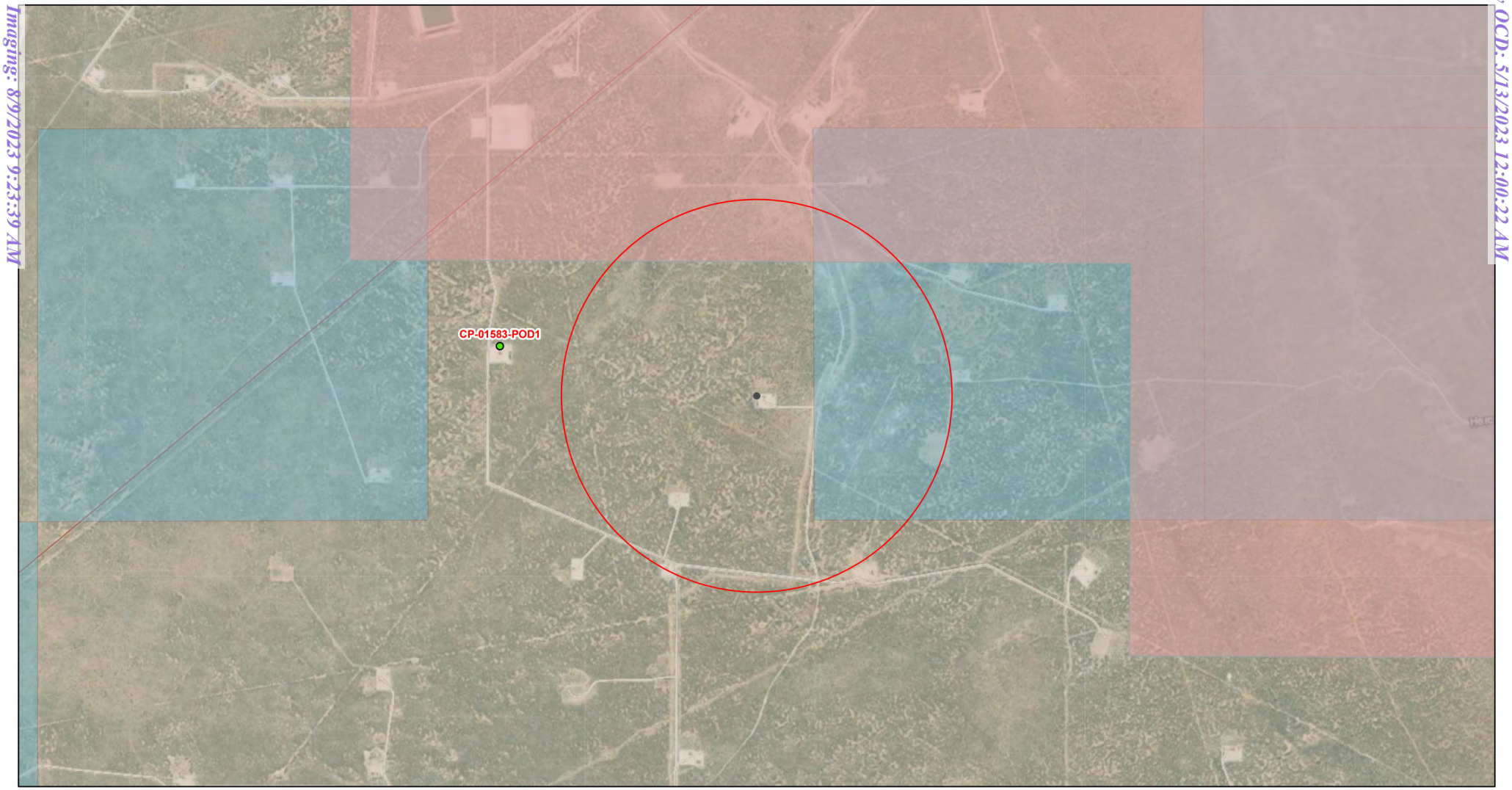
Notes:
1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
~~SP-1~~ Sample Point Excavated
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate 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

APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION

Released to Imaging: 8/9/2023 9:23:39 AM

Received by OCD: 5/13/2023 12:00:22 AM

OSE POD Locations Map



5/10/2023, 4:44:50 PM

GIS WATERS PODs

Pending

OSE District Boundary

Water Right Regulations

Critical Management Area - Guidelines

Closure Area

New Mexico State Trust Lands

Both Estates

NHD Flowlines

Pipeline

SiteBoundaries

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.

Received by OCD: 5/13/2023 12:00:22 AM

Wapati 31 Fed 1

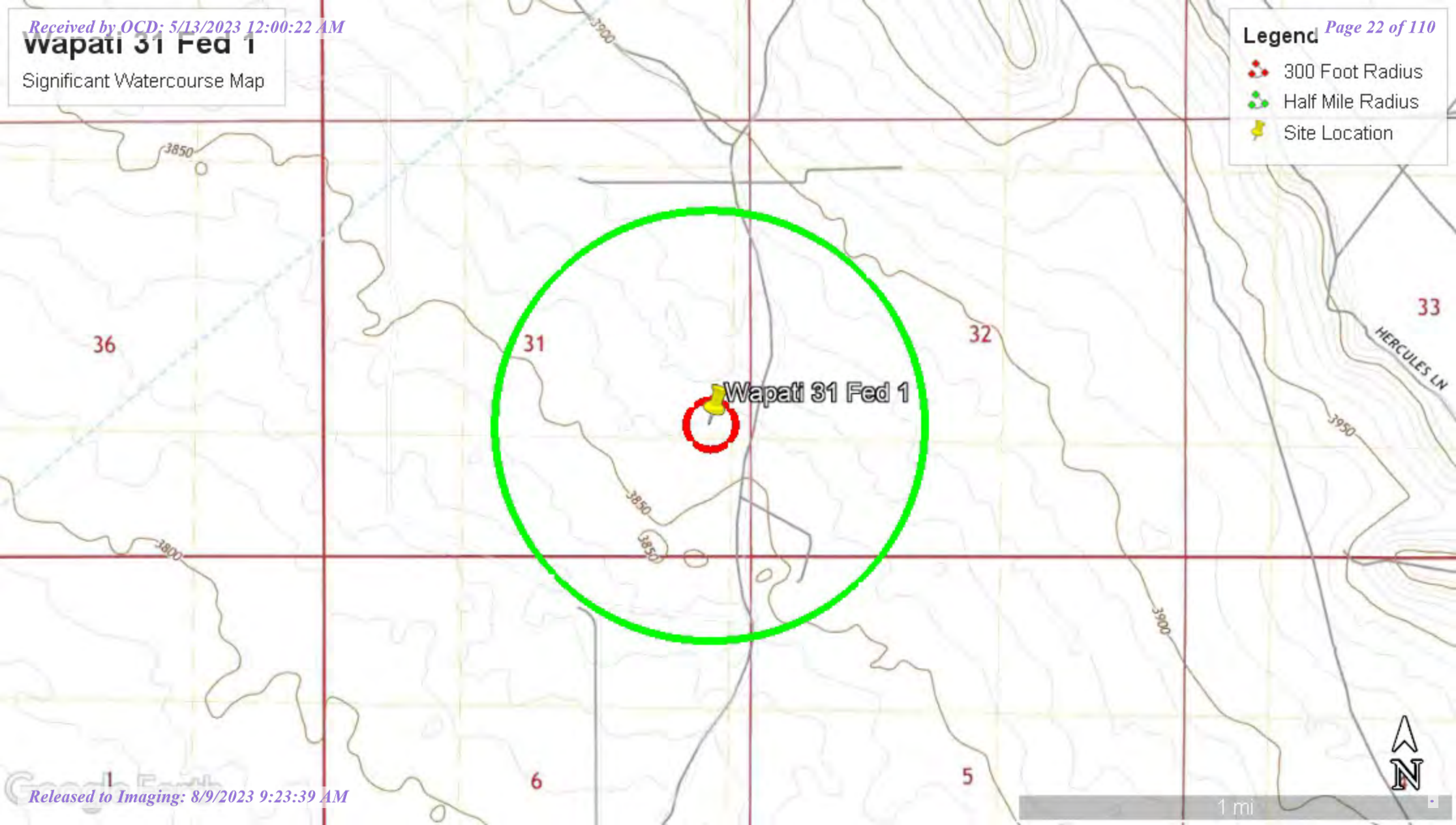
Karst Potential Map

Released to Imaging: 8/9/2023 9:23:39 AM

Received by OCD: 5/13/2023 12:00:22 AM

Wapati 31 Fed 1

Significant Watercourse Map



Released to Imaging: 8/9/2023 9:23:39 AM

Released to Imaging: 8/9/2023 9:23:39 AM

Received by OCD: 5/13/2023 12:00:22 AM

U.S. Fish and Wildlife Service
National Wetlands Inventory

Earthstone - Wapati 31 Fed 1

February 22, 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

Released to Imaging: 8/9/2023 9:23:39 AM

National Flood Hazard Layer FIRMette

FEMA

0 250 500 1,000 1,500 2,000 Feet 1:6,000

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

Legend

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

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

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- 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 *Zone D*

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
- B 20.2 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 Coastal Transect
- 513 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 2/22/2023 at 3:34 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.

Received by OCD: 5/13/2023 12:00:22 AM

APPENDIX B: SAMPLING NOTIFICATIONS

From: Ricardo Baer
To: ocd.enviro@emnrd.nm.gov
Cc: Becky Haskell; NTGE Carlsbad
Subject: Wapati 31 Federal #1
Date: Wednesday, March 22, 2023 1:31:00 PM
Attachments: image001.png

Good afternoon,

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

Wapati 31 Federal #1
I-31-18S-34E
LEA County, NM
nAPP2305933526

Sampling will begin at 8:00 a.m. on Monday, March 27, 2023, and continue through Friday, March 31, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO
Project Scientist
(432) 556-2006
Rbaer@ntglobal.com

From: Enviro, OCD, EMNRD
To: Ricardo Baer
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Wapati 31 Federal #1
Date: Wednesday, March 29, 2023 2:24:04 PM
Attachments: image003.png

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

Ricardo,

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

JH

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

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, March 29, 2023 8:41 AM
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] Wapati 31 Federal #1

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

Good Morning,

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

Wapati 31 Federal #1
I-31-18S-34E
LEA County, NM
nAPP2305933526

Sampling will begin at 8:00 a.m. on Monday, April 3, 2023, and continue through Friday, April 7, 2023. Please let me know if you have any questions.

Thank you,

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

From: Enviro, OCD, EMNRD
To: Ricardo Baer
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Wapati 31 Federal #1
Date: Wednesday, April 5, 2023 3:27:27 PM
Attachments: image003.png

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

Ricardo,

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

JH

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

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, April 5, 2023 8:55 AM
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] Wapati 31 Federal #1

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

Good Morning,

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

Wapati 31 Federal #1
I-31-18S-34E
LEA County, NM

nAPP2305933526

Sampling will begin at 8:00 a.m. on Monday, April 10, 2023, and continue through Friday, April 14, 2023. Please let me know if you have any questions.

Thank you,

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

APPENDIX C: PHOTOGRAPHIC LOGS

PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Wapati 31 Federal 1

Photograph No. 1

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 2

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 3

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Wapati 31 Federal 1

Photograph No. 4

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 5

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

Photograph No. 6

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Area of excavation.

PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Wapati 31 Federal 1

Photograph No. 7

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Completed backfill of site.

Photograph No. 8

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Completed backfill of site.

Photograph No. 9

Facility: Wapati 31 Federal 1

County: Lea County, New Mexico

Description:
Completed backfill of site.

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 3/2/2023 3:52:46 PM

JOB DESCRIPTION

Wapati 31 Fed 1
SDG NUMBER Eddy Co, NM

JOB NUMBER

880-25041-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/5/2023 9:23:59 AM

my EOL

Eurofins Midland

Job Notes

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
3/2/2023 3:52:46 PM

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

Table of Contents

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QC Sample Results 14
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Lab Chronicle 23
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Sample Summary 28
Chain of Custody 29
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Definitions/Glossary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Job ID: 880-25041-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-25041-1

Receipt
The samples were received on 2/21/2023 4:40 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 5.3°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: AH-1 (0-1') (880-25041-1), AH-1 (1'-2') (880-25041-2), AH-1 (2'-3') (880-25041-3), AH-1 (3-4') (880-25041-4), AH-1 (4-5') (880-25041-5), AH-2 (0-6") (880-25041-6), AH-3 (0-6") (880-25041-7), AH-4 (0-6") (880-25041-8) and AH-5 (0-6") (880-25041-9).

GC VOA
Method 8021B: LCS biased high. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.(LCS 880-47520/1-A)

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-47520 and analytical batch 880-47508 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample duplicate (LCSD) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-1 (1'-2') (880-25041-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-47616/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4197-A-10-H). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-1 (0-1') (880-25041-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47161 and analytical batch 880-47132 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-47161 and analytical batch 880-47132 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-25041-1
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	33.7		2.00		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000
Toluene	273		2.00		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000
Ethylbenzene	198		2.00		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000
m-Xylene & p-Xylene	157		4.01		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000
o-Xylene	72.0		2.00		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000
Xylenes, Total	229		4.01		mg/Kg		03/02/23 09:28	03/02/23 14:34	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*152*	*S1+*	*70 - 130*	*03/02/23 09:28*	*03/02/23 14:34*	*1000*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/02/23 09:28*	*03/02/23 14:34*	*1000*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	734		4.01		mg/Kg			03/02/23 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	9490		249		mg/Kg			02/27/23 15:23	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	3710		249		mg/Kg		02/24/23 10:45	02/24/23 17:15	5
Diesel Range Organics (Over C10-C28)	5130		249		mg/Kg		02/24/23 10:45	02/24/23 17:15	5
Oil Range Organics (Over C28-C36)	648		249		mg/Kg		02/24/23 10:45	02/24/23 17:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*02/24/23 10:45*	*02/24/23 17:15*	*5*
o-Terphenyl	*107*		*70 - 130*	*02/24/23 10:45*	*02/24/23 17:15*	*5*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6980		50.0		mg/Kg			02/26/23 16:46	10

Client Sample ID: AH-1 (1'-2')

Lab Sample ID: 880-25041-2
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0220		0.0200		mg/Kg		03/01/23 10:42	03/01/23 19:22	10
Toluene	0.0823		0.0200		mg/Kg		03/01/23 10:42	03/01/23 19:22	10
Ethylbenzene	0.0864		0.0200		mg/Kg		03/01/23 10:42	03/01/23 19:22	10
m-Xylene & p-Xylene	0.0424	*+	0.0399		mg/Kg		03/01/23 10:42	03/01/23 19:22	10
o-Xylene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 19:22	10
Xylenes, Total	0.0424	*+	0.0399		mg/Kg		03/01/23 10:42	03/01/23 19:22	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*03/01/23 10:42*	*03/01/23 19:22*	*10*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/01/23 10:42*	*03/01/23 19:22*	*10*

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (1'-2')

Lab Sample ID: 880-25041-2
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.233		0.0399		mg/Kg			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 17:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 17:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*02/24/23 10:45*	*02/24/23 17:38*	*1*
o-Terphenyl	*113*		*70 - 130*	*02/24/23 10:45*	*02/24/23 17:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.2		4.99		mg/Kg			02/26/23 16:52	1

Client Sample ID: AH-1 (2'-3')

Lab Sample ID: 880-25041-3
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0198	U	0.0198		mg/Kg		03/01/23 10:42	03/01/23 19:42	10
Toluene	<0.0198	U	0.0198		mg/Kg		03/01/23 10:42	03/01/23 19:42	10
Ethylbenzene	<0.0198	U	0.0198		mg/Kg		03/01/23 10:42	03/01/23 19:42	10
m-Xylene & p-Xylene	<0.0396	U *+	0.0396		mg/Kg		03/01/23 10:42	03/01/23 19:42	10
o-Xylene	<0.0198	U	0.0198		mg/Kg		03/01/23 10:42	03/01/23 19:42	10
Xylenes, Total	<0.0396	U *+	0.0396		mg/Kg		03/01/23 10:42	03/01/23 19:42	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/01/23 10:42*	*03/01/23 19:42*	*10*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/01/23 10:42*	*03/01/23 19:42*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0396	U	0.0396		mg/Kg			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 18:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:11	1

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (2'-3')

Lab Sample ID: 880-25041-3
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:11*	*1*
o-Terphenyl	*101*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**526**		4.95		mg/Kg			02/26/23 17:10	1

Client Sample ID: AH-1 (3-4')

Lab Sample ID: 880-25041-4
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0199	U	0.0199		mg/Kg		03/01/23 10:42	03/01/23 20:03	10
Toluene	<0.0199	U	0.0199		mg/Kg		03/01/23 10:42	03/01/23 20:03	10
Ethylbenzene	<0.0199	U	0.0199		mg/Kg		03/01/23 10:42	03/01/23 20:03	10
m-Xylene & p-Xylene	<0.0398	U *+	0.0398		mg/Kg		03/01/23 10:42	03/01/23 20:03	10
o-Xylene	<0.0199	U	0.0199		mg/Kg		03/01/23 10:42	03/01/23 20:03	10
Xylenes, Total	<0.0398	U *+	0.0398		mg/Kg		03/01/23 10:42	03/01/23 20:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:03*	*10*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:03*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0398	U	0.0398		mg/Kg			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:33*	*1*
o-Terphenyl	*99*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**827**		24.8		mg/Kg			02/26/23 17:16	5

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (4-5')

Lab Sample ID: 880-25041-5
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:23	10
Toluene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:23	10
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:23	10
m-Xylene & p-Xylene	<0.0399	U *+	0.0399		mg/Kg		03/01/23 10:42	03/01/23 20:23	10
o-Xylene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:23	10
Xylenes, Total	<0.0399	U *+	0.0399		mg/Kg		03/01/23 10:42	03/01/23 20:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:23*	*10*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:23*	*10*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0399	U	0.0399		mg/Kg			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 18:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:55*	*1*
o-Terphenyl	*97*		*70 - 130*	*02/24/23 10:45*	*02/24/23 18:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**912**		24.9		mg/Kg			02/26/23 17:23	5

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

Lab Sample ID: 880-25041-6
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:44	10
Toluene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:44	10
Ethylbenzene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:44	10
m-Xylene & p-Xylene	<0.0401	U *+	0.0401		mg/Kg		03/01/23 10:42	03/01/23 20:44	10
o-Xylene	<0.0200	U	0.0200		mg/Kg		03/01/23 10:42	03/01/23 20:44	10
Xylenes, Total	<0.0401	U *+	0.0401		mg/Kg		03/01/23 10:42	03/01/23 20:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:44*	*10*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/01/23 10:42*	*03/01/23 20:44*	*10*

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-25041-6
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0401	U	0.0401		mg/Kg			03/02/23 16:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**331**		50.0		mg/Kg			02/27/23 15:23	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		02/24/23 10:45	02/24/23 19:17	1
Diesel Range Organics (Over C10-C28)	**268**		50.0		mg/Kg		02/24/23 10:45	02/24/23 19:17	1
Oil Range Organics (Over C28-C36)	**63.1**		50.0		mg/Kg		02/24/23 10:45	02/24/23 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*02/24/23 10:45*	*02/24/23 19:17*	*1*
o-Terphenyl	*96*		*70 - 130*	*02/24/23 10:45*	*02/24/23 19:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1100**		25.2		mg/Kg			02/26/23 17:29	5

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

Lab Sample ID: 880-25041-7
Matrix: Solid

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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		03/01/23 10:42	03/01/23 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/01/23 10:42	03/01/23 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/01/23 10:42	03/01/23 18:00	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		03/01/23 10:42	03/01/23 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/01/23 10:42	03/01/23 18:00	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		03/01/23 10:42	03/01/23 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:00*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:00*	*1*

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			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 19:39	1

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-25041-7
Matrix: Solid
Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 19:39	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*02/24/23 10:45*	*02/24/23 19:39*	*1*
o-Terphenyl	*95*		*70 - 130*	*02/24/23 10:45*	*02/24/23 19:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			02/26/23 17:35	1

Client Sample ID: AH-4 (0-6")

Lab Sample ID: 880-25041-8
Matrix: Solid
Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

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		03/01/23 10:42	03/01/23 18:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 18:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 18:21	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401		mg/Kg		03/01/23 10:42	03/01/23 18:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 18:21	1
Xylenes, Total	<0.00401	U *+	0.00401		mg/Kg		03/01/23 10:42	03/01/23 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:21*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:21*	*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			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 20:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 20:02	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/24/23 10:45	02/24/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*02/24/23 10:45*	*02/24/23 20:02*	*1*
o-Terphenyl	*105*		*70 - 130*	*02/24/23 10:45*	*02/24/23 20:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			02/26/23 17:41	1

Client Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-5 (0-6")

Date Collected: 02/21/23 00:00
Date Received: 02/21/23 16:40

Lab Sample ID: 880-25041-9

Matrix: Solid

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		03/01/23 10:42	03/01/23 18:41	1
Toluene	**0.00323**		0.00199		mg/Kg		03/01/23 10:42	03/01/23 18:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/01/23 10:42	03/01/23 18:41	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		03/01/23 10:42	03/01/23 18:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/01/23 10:42	03/01/23 18:41	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		03/01/23 10:42	03/01/23 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:41*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/01/23 10:42*	*03/01/23 18:41*	*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			03/02/23 16:30	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			02/27/23 15:23	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		02/24/23 10:45	02/24/23 20:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 10:45	02/24/23 20:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 10:45	02/24/23 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*02/24/23 10:45*	*02/24/23 20:24*	*1*
o-Terphenyl	*102*		*70 - 130*	*02/24/23 10:45*	*02/24/23 20:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**665**		24.8		mg/Kg			02/26/23 17:47	5

Surrogate Summary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy 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)
880-25041-1	AH-1 (0-1')	152 S1+	109
880-25041-2	AH-1 (1'-2')	63 S1-	80
880-25041-3	AH-1 (2'-3')	113	100
880-25041-4	AH-1 (3-4')	90	105
880-25041-5	AH-1 (4-5')	105	92
880-25041-6	AH-2 (0-6")	112	87
880-25041-7	AH-3 (0-6")	115	104
880-25041-8	AH-4 (0-6")	120	106
880-25041-9	AH-5 (0-6")	123	109
880-25085-A-1-C MS	Matrix Spike	113	112
880-25085-A-1-D MSD	Matrix Spike Duplicate	116	115
890-4197-A-10-F MS	Matrix Spike	102	106
890-4197-A-10-G MSD	Matrix Spike Duplicate	108	110
LCS 880-47520/1-A	Lab Control Sample	113	114
LCS 880-47616/1-A	Lab Control Sample	133 S1+	108
LCSD 880-47520/2-A	Lab Control Sample Dup	113	106
LCSD 880-47616/2-A	Lab Control Sample Dup	122	104
MB 880-47520/5-A	Method Blank	103	105
MB 880-47616/5-A	Method Blank	83	83

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)
880-25041-1	AH-1 (0-1')	109	107
880-25041-2	AH-1 (1'-2')	105	113
880-25041-3	AH-1 (2'-3')	93	101
880-25041-4	AH-1 (3-4')	91	99
880-25041-5	AH-1 (4-5')	89	97
880-25041-6	AH-2 (0-6")	90	96
880-25041-7	AH-3 (0-6")	87	95
880-25041-8	AH-4 (0-6")	97	105
880-25041-9	AH-5 (0-6")	93	102
890-4142-A-1-E MS	Matrix Spike	105	100
890-4142-A-1-F MSD	Matrix Spike Duplicate	107	102
LCS 880-47161/2-A	Lab Control Sample	118	122
LCSD 880-47161/3-A	Lab Control Sample Dup	103	109
MB 880-47161/1-A	Method Blank	120	137 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47520/5-A
Matrix: Solid
Analysis Batch: 47508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 12:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 12:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 12:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/01/23 10:42	03/01/23 12:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/01/23 10:42	03/01/23 12:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/01/23 10:42	03/01/23 12:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/01/23 10:42*	*03/01/23 12:17*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/01/23 10:42*	*03/01/23 12:17*	*1*

Lab Sample ID: LCS 880-47520/1-A
Matrix: Solid
Analysis Batch: 47508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47520

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1236		mg/Kg		124	70 - 130
Toluene	0.100	0.1205		mg/Kg		121	70 - 130
Ethylbenzene	0.100	0.1260		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2692	*+	mg/Kg		135	70 - 130
o-Xylene	0.100	0.1303		mg/Kg		130	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-47520/2-A
Matrix: Solid
Analysis Batch: 47508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47520

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1014		mg/Kg		101	70 - 130	20	35
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	14	35
Ethylbenzene	0.100	0.1064		mg/Kg		106	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130	17	35
o-Xylene	0.100	0.1086		mg/Kg		109	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-25085-A-1-C MS
Matrix: Solid
Analysis Batch: 47508

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47520

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.1078		mg/Kg		108	70 - 130
Toluene	<0.00201	U	0.100	0.1013		mg/Kg		101	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-25085-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47508 — **Prep Batch: 47520**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.1004		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1 *+	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	<0.00201	U	0.100	0.1016		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-25085-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47508 — **Prep Batch: 47520**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.1287		mg/Kg		130	70 - 130	18	35
Toluene	<0.00201	U	0.0990	0.1228		mg/Kg		124	70 - 130	19	35
Ethylbenzene	<0.00201	U	0.0990	0.1246		mg/Kg		126	70 - 130	22	35
m-Xylene & p-Xylene	<0.00402	U F1 *+	0.198	0.2651	F1	mg/Kg		134	70 - 130	22	35
o-Xylene	<0.00201	U	0.0990	0.1269		mg/Kg		128	70 - 130	22	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: MB 880-47616/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/02/23 09:28	03/02/23 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/02/23 09:28	03/02/23 11:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/02/23 09:28	03/02/23 11:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/02/23 09:28	03/02/23 11:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*03/02/23 09:28*	*03/02/23 11:08*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/02/23 09:28*	*03/02/23 11:08*	*1*

Lab Sample ID: LCS 880-47616/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08324		mg/Kg		83	70 - 130
Toluene	0.100	0.08248		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.09740		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: LCS 880-47616/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1060		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*133*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: LCSD 880-47616/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08959		mg/Kg		90	70 - 130	7	35
Toluene			0.100	0.08981		mg/Kg		90	70 - 130	9	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2008		mg/Kg		100	70 - 130	3	35
o-Xylene			0.100	0.1017		mg/Kg		102	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-4197-A-10-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.1166		mg/Kg		114	70 - 130		
Toluene	0.00371		0.100	0.1033		mg/Kg		99	70 - 130		
Ethylbenzene	0.00518		0.100	0.1059		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene	0.00916		0.201	0.2144		mg/Kg		102	70 - 130		
o-Xylene	0.00634		0.100	0.1057		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-4197-A-10-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47603 — **Prep Batch: 47616**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.1227		mg/Kg		122	70 - 130	5	35
Toluene	0.00371		0.0990	0.1085		mg/Kg		106	70 - 130	5	35
Ethylbenzene	0.00518		0.0990	0.1109		mg/Kg		107	70 - 130	5	35
m-Xylene & p-Xylene	0.00916		0.198	0.2277		mg/Kg		110	70 - 130	6	35
o-Xylene	0.00634		0.0990	0.1131		mg/Kg		108	70 - 130	7	35

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-4197-A-10-G MSD
Matrix: Solid
Analysis Batch: 47603

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47616

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-47161/1-A
Matrix: Solid
Analysis Batch: 47132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 47161

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		02/24/23 08:15	02/24/23 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 08:15	02/24/23 08:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 08:15	02/24/23 08:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	02/24/23 08:15	02/24/23 08:40	1
o-Terphenyl	137	S1+	70 - 130	02/24/23 08:15	02/24/23 08:40	1

Lab Sample ID: LCS 880-47161/2-A
Matrix: Solid
Analysis Batch: 47132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1003		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1167		mg/Kg		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-47161/3-A
Matrix: Solid
Analysis Batch: 47132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47161

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1103		mg/Kg		110	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	1053		mg/Kg		105	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	109		70 - 130

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 890-4142-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47132 — **Prep Batch: 47161**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	999.8		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	53.4		998	1014		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*105*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 890-4142-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 47132 — **Prep Batch: 47161**

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	<49.8	U	996	1006		mg/Kg		97	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	53.4		996	1031		mg/Kg		98	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*102*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47149/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			02/26/23 14:45	1

Lab Sample ID: LCS 880-47149/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.6		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-47149/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 47260

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	229.8		mg/Kg		92	90 - 110	0	20

QC Sample Results

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-25040-A-6-B MS
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	85.6		249	308.9		mg/Kg		90	90 - 110		

Lab Sample ID: 880-25040-A-6-C MSD
Matrix: Solid
Analysis Batch: 47260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	85.6		249	310.2		mg/Kg		90	90 - 110	0	20

QC Association Summary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 47508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	8021B	47520
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	8021B	47520
880-25041-4	AH-1 (3-4')	Total/NA	Solid	8021B	47520
880-25041-5	AH-1 (4-5')	Total/NA	Solid	8021B	47520
880-25041-6	AH-2 (0-6")	Total/NA	Solid	8021B	47520
880-25041-7	AH-3 (0-6")	Total/NA	Solid	8021B	47520
880-25041-8	AH-4 (0-6")	Total/NA	Solid	8021B	47520
880-25041-9	AH-5 (0-6")	Total/NA	Solid	8021B	47520
MB 880-47520/5-A	Method Blank	Total/NA	Solid	8021B	47520
LCS 880-47520/1-A	Lab Control Sample	Total/NA	Solid	8021B	47520
LCSD 880-47520/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47520
880-25085-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	47520
880-25085-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47520

Prep Batch: 47520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	5035	
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	5035	
880-25041-4	AH-1 (3-4')	Total/NA	Solid	5035	
880-25041-5	AH-1 (4-5')	Total/NA	Solid	5035	
880-25041-6	AH-2 (0-6")	Total/NA	Solid	5035	
880-25041-7	AH-3 (0-6")	Total/NA	Solid	5035	
880-25041-8	AH-4 (0-6")	Total/NA	Solid	5035	
880-25041-9	AH-5 (0-6")	Total/NA	Solid	5035	
MB 880-47520/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47520/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47520/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-25085-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-25085-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	8021B	47616
MB 880-47616/5-A	Method Blank	Total/NA	Solid	8021B	47616
LCS 880-47616/1-A	Lab Control Sample	Total/NA	Solid	8021B	47616
LCSD 880-47616/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47616
890-4197-A-10-F MS	Matrix Spike	Total/NA	Solid	8021B	47616
890-4197-A-10-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47616

Prep Batch: 47616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	5035	
MB 880-47616/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47616/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47616/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4197-A-10-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4197-A-10-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

GC VOA (Continued)

Analysis Batch: 47659 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	Total BTEX	
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	Total BTEX	
880-25041-4	AH-1 (3-4')	Total/NA	Solid	Total BTEX	
880-25041-5	AH-1 (4-5')	Total/NA	Solid	Total BTEX	
880-25041-6	AH-2 (0-6")	Total/NA	Solid	Total BTEX	
880-25041-7	AH-3 (0-6")	Total/NA	Solid	Total BTEX	
880-25041-8	AH-4 (0-6")	Total/NA	Solid	Total BTEX	
880-25041-9	AH-5 (0-6")	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	8015B NM	47161
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	8015B NM	47161
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	8015B NM	47161
880-25041-4	AH-1 (3-4')	Total/NA	Solid	8015B NM	47161
880-25041-5	AH-1 (4-5')	Total/NA	Solid	8015B NM	47161
880-25041-6	AH-2 (0-6")	Total/NA	Solid	8015B NM	47161
880-25041-7	AH-3 (0-6")	Total/NA	Solid	8015B NM	47161
880-25041-8	AH-4 (0-6")	Total/NA	Solid	8015B NM	47161
880-25041-9	AH-5 (0-6")	Total/NA	Solid	8015B NM	47161
MB 880-47161/1-A	Method Blank	Total/NA	Solid	8015B NM	47161
LCS 880-47161/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47161
LCSD 880-47161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47161
890-4142-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	47161
890-4142-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47161

Prep Batch: 47161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	8015NM Prep	
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	8015NM Prep	
880-25041-4	AH-1 (3-4')	Total/NA	Solid	8015NM Prep	
880-25041-5	AH-1 (4-5')	Total/NA	Solid	8015NM Prep	
880-25041-6	AH-2 (0-6")	Total/NA	Solid	8015NM Prep	
880-25041-7	AH-3 (0-6")	Total/NA	Solid	8015NM Prep	
880-25041-8	AH-4 (0-6")	Total/NA	Solid	8015NM Prep	
880-25041-9	AH-5 (0-6")	Total/NA	Solid	8015NM Prep	
MB 880-47161/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47161/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47161/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4142-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4142-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Total/NA	Solid	8015 NM	
880-25041-2	AH-1 (1'-2')	Total/NA	Solid	8015 NM	
880-25041-3	AH-1 (2'-3')	Total/NA	Solid	8015 NM	
880-25041-4	AH-1 (3-4')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

GC Semi VOA (Continued)

Analysis Batch: 47343 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-5	AH-1 (4-5')	Total/NA	Solid	8015 NM	
880-25041-6	AH-2 (0-6")	Total/NA	Solid	8015 NM	
880-25041-7	AH-3 (0-6")	Total/NA	Solid	8015 NM	
880-25041-8	AH-4 (0-6")	Total/NA	Solid	8015 NM	
880-25041-9	AH-5 (0-6")	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-25041-2	AH-1 (1'-2')	Soluble	Solid	DI Leach	
880-25041-3	AH-1 (2'-3')	Soluble	Solid	DI Leach	
880-25041-4	AH-1 (3-4')	Soluble	Solid	DI Leach	
880-25041-5	AH-1 (4-5')	Soluble	Solid	DI Leach	
880-25041-6	AH-2 (0-6")	Soluble	Solid	DI Leach	
880-25041-7	AH-3 (0-6")	Soluble	Solid	DI Leach	
880-25041-8	AH-4 (0-6")	Soluble	Solid	DI Leach	
880-25041-9	AH-5 (0-6")	Soluble	Solid	DI Leach	
MB 880-47149/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47149/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47149/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-25040-A-6-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-25040-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25041-1	AH-1 (0-1')	Soluble	Solid	300.0	47149
880-25041-2	AH-1 (1'-2')	Soluble	Solid	300.0	47149
880-25041-3	AH-1 (2'-3')	Soluble	Solid	300.0	47149
880-25041-4	AH-1 (3-4')	Soluble	Solid	300.0	47149
880-25041-5	AH-1 (4-5')	Soluble	Solid	300.0	47149
880-25041-6	AH-2 (0-6")	Soluble	Solid	300.0	47149
880-25041-7	AH-3 (0-6")	Soluble	Solid	300.0	47149
880-25041-8	AH-4 (0-6")	Soluble	Solid	300.0	47149
880-25041-9	AH-5 (0-6")	Soluble	Solid	300.0	47149
MB 880-47149/1-A	Method Blank	Soluble	Solid	300.0	47149
LCS 880-47149/2-A	Lab Control Sample	Soluble	Solid	300.0	47149
LCSD 880-47149/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47149
880-25040-A-6-B MS	Matrix Spike	Soluble	Solid	300.0	47149
880-25040-A-6-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47149

Lab Chronicle

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-25041-1
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47616	03/02/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	47603	03/02/23 14:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	47132	02/24/23 17:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		10			47260	02/26/23 16:46	CH	EET MID

Client Sample ID: AH-1 (1'-2')

Lab Sample ID: 880-25041-2
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	47508	03/01/23 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 17:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		1			47260	02/26/23 16:52	CH	EET MID

Client Sample ID: AH-1 (2'-3')

Lab Sample ID: 880-25041-3
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	47508	03/01/23 19:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 18:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		1			47260	02/26/23 17:10	CH	EET MID

Client Sample ID: AH-1 (3-4')

Lab Sample ID: 880-25041-4
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	47508	03/01/23 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Client Sample ID: AH-1 (3-4')

Lab Sample ID: 880-25041-4
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 18:33	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		5			47260	02/26/23 17:16	CH	EET MID

Client Sample ID: AH-1 (4-5')

Lab Sample ID: 880-25041-5
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	47508	03/01/23 20:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 18:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		5			47260	02/26/23 17:23	CH	EET MID

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

Lab Sample ID: 880-25041-6
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	47508	03/01/23 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 19:17	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		5			47260	02/26/23 17:29	CH	EET MID

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

Lab Sample ID: 880-25041-7
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/01/23 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 19:39	SM	EET MID

Lab Chronicle

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-25041-7
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		1			47260	02/26/23 17:35	CH	EET MID

Client Sample ID: AH-4 (0-6")

Lab Sample ID: 880-25041-8
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/01/23 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 20:02	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		1			47260	02/26/23 17:41	CH	EET MID

Client Sample ID: AH-5 (0-6")

Lab Sample ID: 880-25041-9
Date Collected: 02/21/23 00:00
Matrix: Solid
Date Received: 02/21/23 16:40

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	47520	03/01/23 10:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47508	03/01/23 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47659	03/02/23 16:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			47343	02/27/23 15:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47161	02/24/23 10:45	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47132	02/24/23 20:24	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	47149	02/24/23 10:29	KS	EET MID
Soluble	Analysis	300.0		5			47260	02/26/23 17:47	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: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy 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	T104704400-22-25	06-30-23

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

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

Method Summary

Client: NT Global
Project/Site: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy 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: Wapati 31 Fed 1

Job ID: 880-25041-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25041-1	AH-1 (0-1')	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-2	AH-1 (1'-2')	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-3	AH-1 (2'-3')	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-4	AH-1 (3-4')	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-5	AH-1 (4-5')	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-6	AH-2 (0-6")	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-7	AH-3 (0-6")	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-8	AH-4 (0-6")	Solid	02/21/23 00:00	02/21/23 16:40
880-25041-9	AH-5 (0-6")	Solid	02/21/23 00:00	02/21/23 16:40

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: 25041

3/2/2023

Page _____ of _____

Project Manager:	Jeffrey Kindley	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds BLVD	Address:	600 N Marienfeld Suite 1000
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Midland Tx 79701
Phone:	432-766-1918	Email:	Bhaskell@ntglobal.com, Cmartin@earthstoneenergy.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:	Wapati 31 Fed 1	**Turn Around**	
Project Number:	237040	☑ Routine	☐ Rush
Project Location	Eddy Co, NM	Due Date	Standard
Sampler's Name	RP	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:	5.6
Total Containers:		Corrected Temperature:	5.3

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	8015 Modified	8021 B	Chloride 300 0	HOLD	Sample Comments
AH-1 (0-1')	2/21/2023	-	X	-	G	1	X	X	X		402
AH-1 (1'-2')	2/21/2023	-	X	-	G	1	X	X	X		
AH-1 (2'-3')	2/21/2023	-	X	-	G	1	X	X	X		
AH-1 (3'-4')	2/21/2023	-	X	-	G	1	X	X	X		
AH-1 (4'-5')	2/21/2023	-	X	-	G	1	X	X	X		
AH-2 (0-6")	2/21/2023	-	X	-	G	1	X	X	X		
AH-3 (0-6")	2/21/2023	-	X	-	G	1	X	X	X		
AH-4 (0-6")	2/21/2023	-	X	-	G	1	X	X	X		
AH-5 (0-6")	2/21/2023	-	x	-	G	1	X	X	X		

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	

880-25041 Chain of Custody

Additoinal 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
Rick pena		2/21/23 1640	2		
3			4		
5			6		

Revised Date 05012020 Rev 2020.1

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

Login Sample Receipt Checklist

Client: NT Global

Job Number: 880-25041-1
SDG Number: Eddy Co, NM

Login Number: 25041
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

March 28, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI

Enclosed are the results of analyses for samples received by the laboratory on 03/27/23 14:47.

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

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:	03/27/2023	Sampling Date:	03/23/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: VD (5') (H231382-01)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	QM-07, QR-03
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	QM-07
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**448**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane *88.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *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:	03/27/2023	Sampling Date:	03/23/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: VD (6') (H231382-02)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**352**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane *96.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: AH 2 - A (1') (H231382-03)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**128**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	**841**	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	**332**	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: AH 5 - A (1') (H231382-04)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**48.0**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *129 %* *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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 1 (0'-1') (H231382-05)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**448**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	**725**	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	**265**	10.0	03/27/2023	ND					

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

Surrogate: 1-Chlorooctadecane *98.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	03/27/2023	Sampling Date:	03/27/2023
Reported:	03/28/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 2 (0'-1') (H231382-06)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2023	ND	2.02	101	2.00	4.48	
Toluene*	<0.050	0.050	03/27/2023	ND	2.03	101	2.00	3.77	
Ethylbenzene*	<0.050	0.050	03/27/2023	ND	2.11	106	2.00	2.71	
Total Xylenes*	<0.150	0.150	03/27/2023	ND	6.47	108	6.00	1.62	
Total BTEX	<0.300	0.300	03/27/2023	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	**112**	16.0	03/28/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2023	ND	180	90.1	200	0.900	
DRO >C10-C28*	<10.0	10.0	03/27/2023	ND	208	104	200	1.72	
EXT DRO >C28-C36	<10.0	10.0	03/27/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene, Lab Director/Quality Manager

NTG ENVIRONMENTAL

Chain of Custody

Work Order No: #2313882

Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marienfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX,79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Wapati	Turn Around	☐ Routine ☑ Rush
Project Number:	237040	Due Date:	24HR
Project Location	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tyler Kimball		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	113
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.6i
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	1.3i
Total Containers:	6	Corrected Temperature:	0.7i

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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
VD (5')	3/23/2023		x		Grab/	1	x	x	x		
VD (6')	3/23/2023		x		Grab/	1	x	x	x		
AH2-A (1')	3/27/2023		x		Grab/	1	x	x	x		
AH5-A (1')	3/27/2023		x		Grab/	1	x	x	x		
SW-1 (0'-1')	3/27/2023		x		Comp	1	x	x	x		
SW-2 (0'-1')	3/27/2023		x		Comp	1	x	x	x		

Additional Comments: Billing Code: EAROPEMTX

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3/27/23 1447	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

CARDINAL Laboratories

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

April 03, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 15:03.

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

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:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: AH - 2B (1.5') (H231447-01)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	10.2	
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2	
Total BTEX	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	203	101	200	1.05	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	218	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *126 %* *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:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 1 A (0'-1') (H231447-02)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	10.2	
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2	
Total BTEX	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *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:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	WAPATI	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 3 (1'-1.5') (H231447-03)

BTEX 8021B mg/kg **Analyzed By: JH/**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	10.2	
Toluene*	<0.050	0.050	03/31/2023	ND	2.16	108	2.00	11.3	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.14	107	2.00	11.5	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.70	112	6.00	12.2	
Total BTEX	<0.300	0.300	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *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	03/31/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	**274**	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	**117**	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane *123 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *143 %* *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

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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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 E
Project Manager:	Becky Haskel
Address:	402 E Wood Ave
City:	Carlsbad State: NM Zip: 88220
Phone #:	432-924-8056 Fax #:
Project #:	237040 Project Owner: Earthstone
Project Name:	Wapati
Project Location:	Lea County
Sampler Name:	Alex Lumbell

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL ✓	OTHER:	SAMPLING DATE	TIME	Chlorides	TPH	BTEX
H231447																	
1	Alt-2B (1.5')	G	1			X							3-29		X	X	X
2	SW-1A (0'-1')	G	1			X							3-29		X	X	X
3	SW-3 (1'-1.5')	G	1			X							3-29		X	X	X

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Relinquished By:	Date: 3-29	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 3:03pm		All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One)	Observed Temp. °C 3.8	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3.2	☑ Yes ☑ Yes ☐ No ☐ No		Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool Intact ☐ Yes ☐ Yes ☐ No ☐ 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

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

CARDINAL Laboratories

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

April 06, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI 31 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/03/23 13:21.

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

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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 1 (1') (H231517-01)

BTEX 8021B **mg/L** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *77.5-125*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	04/04/2023	ND	432	108	400	0.00	

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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane *79.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *94.5 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 2 (1') (H231517-02)

BTEX 8021B mg/L Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	04/04/2023	ND	432	108	400	0.00	

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	04/05/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	**19.0**	10.0	04/05/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane *95.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 3 (1') (H231517-03)

BTEX 8021B mg/L **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	04/04/2023	ND	432	108	400	0.00	

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	04/05/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	**28.4**	10.0	04/05/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane *93.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 4 (1') (H231517-04)

BTEX 8021B **mg/L** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *77.5-125*

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	04/04/2023	ND	432	108	400	0.00	

TPH 8015M **mg/kg** **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/05/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane *125 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *155 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 5 (1') (H231517-05)

BTEX 8021B mg/L **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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	04/04/2023	ND	432	108	400	0.00	

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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane *108 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *128 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 6 (1') (H231517-06)

BTEX 8021B **mg/L** **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	04/04/2023	ND	432	108	400	0.00	

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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	**43.7**	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	**18.9**	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *123 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: CS - 7 (1') (H231517-07)

BTEX 8021B mg/L Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	04/04/2023	ND	432	108	400	0.00	

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	04/05/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/05/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/05/2023	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *139 %* *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:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY		

Sample ID: SW - 4 (0-1') (H231517-08)

BTEX 8021B mg/L Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *77.5-125*

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	04/04/2023	ND	416	104	400	0.00	

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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	**26.4**	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *141 %* *49.1-148*

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H231517

Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone Operating LLC
Address:	701 Tradewinds Blvd.	Address:	600 N. Marienfeld, Suite 1000
City, State ZIP:	Midland TX, 79701	City, State ZIP:	Midland TX,79701
Phone:	432-766-1918	Email:	cmartin@earthstoneenergy.com

Work Order Comments

Program: UST/PS☐ PR☐ Brownfie☐s R☐ Supe☐

State of Project:

Reporting:Level ☐ Level ☐ PST/U☐ TR☐P Le☐

Deliverables: EDD☐ ADaP☐ Other:

Project Name:	Wapati 31 Fed 1	Turn Around	
Project Number:	237040	☑ Routine ☐ Rush	
Project Location	Lea County	Due Date:	
Sampler's Name:	Kenny Han	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:	113
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.6i
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	5.6i
Total Containers:	8	Corrected Temperature:	5.0i

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD	Sample Comments
CS-1 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-2 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-3 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-4 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-5 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-6 (1')	4/3/2023		x		Comp	1	x	x	x		
CS-7 (1')	4/3/2023		x		Comp	1	x	x	x		
SW-4 (0-1')	4/3/2023		x		Comp	1	x	x	x		

Additional Comments: Billing Code: EARTHSTONE

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	SRodriguez	4/3/23 1321	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

CARDINAL Laboratories

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

April 11, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI 31 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 12:45.

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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 8 1' (H231581-01)

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	04/06/2023	ND	1.95	97.4	2.00	1.76	
Toluene*	<0.050	0.050	04/06/2023	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.13	102	6.00	2.28	
Total BTEX	<0.300	0.300	04/06/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	197	98.6	200	0.810	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	199	99.5	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *98.1 %* *48.2-134*

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

Cardinal Laboratories *=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 9 1' (H231581-02)

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	04/06/2023	ND	1.95	97.4	2.00	1.76	
Toluene*	<0.050	0.050	04/06/2023	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.13	102	6.00	2.28	
Total BTEX	<0.300	0.300	04/06/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *79.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.4 %* *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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 10 1.5' (H231581-03)

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	04/06/2023	ND	1.95	97.4	2.00	1.76	
Toluene*	<0.050	0.050	04/06/2023	ND	1.95	97.3	2.00	2.47	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.03	102	2.00	2.52	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.13	102	6.00	2.28	
Total BTEX	<0.300	0.300	04/06/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *78.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *83.9 %* *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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 11 1' (H231581-04)

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	04/06/2023	ND	2.02	101	2.00	4.21	
Toluene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	4.52	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.34	106	6.00	2.41	
Total BTEX	<0.300	0.300	04/06/2023	ND					

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

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *82.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.9 %* *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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 12 1' (H231581-05)

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	04/06/2023	ND	2.02	101	2.00	4.21	
Toluene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	4.52	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.34	106	6.00	2.41	
Total BTEX	<0.300	0.300	04/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *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	**80.0**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	**295**	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	**186**	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *73.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.5 %* *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

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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

CMartin @ Earthstone Energy.com

Company Name:	NTG-E
Project Manager:	Becky Haskell
Address:	701 Tradewinds BLVD
City:	Midland State: TX Zip: 79701
Phone #:	432-766-1918 Fax #:
Project #:	237040 Project Owner:
Project Name:	Wapati 31 Fed 1
Project Location:	Lea Co, NM
Sampler Name:	Kenny Han

BILL TO

P.O. #:	
Company:	Earthstone
Attn:	Chris Martin
Address:	
City:	
State:	Zip:
Phone #:	
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	ANALYSIS REQUEST: BTEX	Chloride	TPH
H231581 1	CS-8	1'	C	1			X					✓		4/5				
2	CS-9	↓	↓	↓			↓							↓		↓	↓	↓
3	CS-10	1.5'																
4	CS-11	1'																
5	CS-12	1'																

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: [signature]	Date: 4/5/23 Time: 1245	Received By: [signature]	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS: Billing Code : EARTHSTONE
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.5 Corrected Temp. °C -0.1	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TO

Turnaround Time: Standard ☑ Rush ☐
Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; 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

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

CARDINAL Laboratories

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

April 11, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI 31 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/05/23 12:45.

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

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:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 3A 1-1.5' (H231582-01)

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	04/06/2023	ND	2.02	101	2.00	4.21	
Toluene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	4.52	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.34	106	6.00	2.41	
Total BTEX	<0.300	0.300	04/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**80.0**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	<10.0	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

Surrogate: 1-Chlorooctane *78.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.8 %* *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

Analytical Results For:

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

Received:	04/05/2023	Sampling Date:	04/05/2023
Reported:	04/11/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 5 0-1' (H231582-02)

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	04/06/2023	ND	2.02	101	2.00	4.21	
Toluene*	<0.050	0.050	04/06/2023	ND	2.06	103	2.00	4.52	
Ethylbenzene*	<0.050	0.050	04/06/2023	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	04/06/2023	ND	6.34	106	6.00	2.41	
Total BTEX	<0.300	0.300	04/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**112**	16.0	04/06/2023	ND	416	104	400	0.00	

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	04/06/2023	ND	177	88.3	200	1.09	
DRO >C10-C28*	**13.0**	10.0	04/06/2023	ND	173	86.7	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/06/2023	ND					

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

Surrogate: 1-Chlorooctadecane *86.6 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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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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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

cmartin@Earthstone Energy.com

Company Name:	NTGE
Project Manager:	Becky Hustell
Address:	701 Trademinds Blvd
City:	Midland State: TX Zip: 79701
Phone #:	432-766-1918 Fax #:
Project #:	237040 Project Owner:
Project Name:	Wapati 31 Fed 1
Project Location:	Lea Co, NM
Sampler Name:	Kenny Han

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL ✓	OTHER:	SAMPLING DATE	TIME	BTEX 8021B	Chloride 4500	TPH 8015M
H231582 1	SW-3A 1-1.5'	C	1			X							4/5		↓	↓	↓
2	SW-5 0-1'	C	1			X							↓				

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Relinquished By: Kenny	Date: 4/5/23 Time: 1245	Received By: Tamara Oldham
Relinquished By:	Date: Time:	Received By:

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

REMARKS: Billing We : EARTHSTONE

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

Observed Temp. °C 0.5
Corrected Temp. °C 0.1

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

CHECKED BY: (Initials) YO

Turnaround Time: Standard ☑ Rush ☐

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

Thermometer ID #113
Correction Factor -0.6°C

FORM-006 R 3.3 07/18/22

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

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

CARDINAL Laboratories

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

April 13, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: WAPATI 31 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 04/12/23 12:35.

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

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:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: CS - 12 A 1.5' (H231731-01)

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	04/12/2023	ND	1.71	85.3	2.00	10.6	
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22	
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03	
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16	
Total BTEX	<0.300	0.300	04/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *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	**240**	16.0	04/12/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/12/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/12/2023	ND					

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

Surrogate: 1-Chlorooctadecane *79.7 %* *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:	04/12/2023	Sampling Date:	04/12/2023
Reported:	04/13/2023	Sampling Type:	Soil
Project Name:	WAPATI 31 FED 1	Sampling Condition:	Cool & Intact
Project Number:	237040	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - LEA COUNTY		

Sample ID: SW - 6 1-1.5' (H231731-02)

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	04/12/2023	ND	1.71	85.3	2.00	10.6	
Toluene*	<0.050	0.050	04/12/2023	ND	1.90	95.1	2.00	7.22	
Ethylbenzene*	<0.050	0.050	04/12/2023	ND	1.96	97.8	2.00	6.03	
Total Xylenes*	<0.150	0.150	04/12/2023	ND	5.86	97.7	6.00	7.16	
Total BTEX	<0.300	0.300	04/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *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	**240**	16.0	04/12/2023	ND	416	104	400	3.77	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2023	ND	187	93.6	200	8.89	
DRO >C10-C28*	<10.0	10.0	04/12/2023	ND	184	91.9	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	04/12/2023	ND					

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

Surrogate: 1-Chlorooctadecane *81.8 %* *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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	NTGE
Project Manager:	Becky Haskell
Address:	701 Tradewinds Blvd
City:	Midland
State:	TX
Zip:	79701
Phone #:	432-766-1418
Fax #:	
Project #:	237040
Project Owner:	
Project Name:	Wapati 31
Project Location:	Lea Co, NM
Sampler Name:	Kenny Han

BILL TO

P.O. #:	
Company:	Earthstone
Attn:	Chris Morton
Address:	
City:	
State:	
Zip:	
Phone #:	
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	BTEX 8021	Chloride 4500	TPH 8015
H251731	T: 4/13/23																
1	CS-12A 1.5'	C	1			X							4/12/23		X	X	X
2	SW-6 1-1.5'	C	1			X							↓		X	X	X

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Relinquished By: Kenny Han	Date: 4/12/2023 Time: 1235	Received By: Tamara Oldham	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Time:	Received By:	REMARKS: Billing Code = EARTHSTONE

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.5 Corrected Temp. °C 1.9	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☐ Rush ☑ 24hr Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No 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

Received by OCD: 5/13/2023 12:00:22 AM

Released to Imaging: 8/9/2023 9:23:39 AM

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

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

CONDITIONS

Action 216493

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 216493
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral request approved. Remediation Due date left open until well site has been plugged and abandoned.	8/9/2023