

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company CHLSEA PARK Contact DAX KIMBLE
Address 5014 CARLSBAD HWY HOBBS NM 88240 Telephone No. 505-631-1495
Facility Name LA N C 5518 SPRINGS #2 Facility Type BATTLEY

Surface Owner Ben Jenkins Mineral Owner STATE Lease No. LG-5995

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	8	22S	26E	2310	South	660	East	COOY

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release <u>Oil Spill</u>	Volume of Release <u>165 BBLS</u>	Volume Recovered <u>0</u>
Source of Release <u>hole in tank</u>	Date and Hour of Occurrence	Date and Hour of Discovery <u>11-17-04 2:15 PM</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>MIKE BRATCHER</u>	
By Whom? <u>DAX KIMBLE</u>	Date and Hour <u>3:00 PM 11-17-04</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Bottom of tank had multiple holes in it. Will move out old tank and set new tank in place.

Describe Area Affected and Cleanup Action Taken.*

200' x 200' Affected

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

OIL CONSERVATION DIVISION

Signature: Dax Kimble

Printed Name: DAX KIMBLE

Title: Well Technician

E-mail Address: D.KIMBLE@CHLSEA.COM

Date: 11-18-04

Phone: 505-631-1495

Approved by District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

FAKES
IMAGED
workplan REQ

Incident ID	nMLB0432442377
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Oil Conservation Division

Incident ID	nMLB0432442377
District RP	
Facility ID	
Application ID	

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

Printed Name: Rebecca Haskell Title: Sr. Project Manager

Signature: Rebecca Haskell Date: 10/28/2023

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

OCD Only

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

Incident ID	nMLB0432442377
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Rebecca Haskell

Title: Sr. Project Manager

Signature: Rebecca Haskell

Date: 10/28/2023

email: bhaskell@ntglobal.com

Telephone: 432-766-1918

OCD Only

Received by: Shelly Wells

Date: 10/30/2023

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

Closure Approved by: Ashley Maxwell

Date: 10/31/2023

Printed Name: Ashley Maxwell

Title: Environmental Specialist



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

October 28, 2023

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

**Re: Site Characterization and Closure Report
Lancaster Spring Com #1
Earthstone Operating, LLC
Site Location: Unit I, S08, T22S, R26E
(Lat 32.405622°, Long -104.308770°)
Eddy County, New Mexico
Incident ID: nMLB0432442377**

1. Introduction

New Tech Global LLC (NTGE), on behalf of Earthstone Operating, LLC (Earthstone), has prepared this Site Characterization and Closure Report for the New Mexico Oil Conservation Division (NMOCD) District 2 Office in Artesia, New Mexico for documentation of site assessment, remedial action activities, and analysis at the Lancaster Spring Com #1 (Site). The Site is located within Unit Letter I, Section 08 of Township 22 South and Range 26 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.405622° N latitude and -104.308770° W Longitude. The release occurred on land owned by the New Mexico State Land Office (NMSLO). Figures 1 and 2 depict the Site location.

2. Background

Based on the Release Notification C-141 Form, a condensate release occurred on November 17, 2004. At the time of the release the asset was owned and operated by Chesapeake Operating. Approximately one hundred sixty-five (165) barrels (bbls) of condensate were released with zero (0) bbls recovered for a net loss of 165 bbls of condensate. Earthstone later acquired the asset from Chisholm Energy Operating, LLC. The release area is depicted on Figure 3. The Release Notification, Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nMLB0432442377 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 half 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

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October 28, 2023
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Site. According to the Karst Potential Map the site is located within a Critical Karst area. The Site characterization documentation (New Mexico Oil and Gas Map, Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are provided in Appendix 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)
Critical 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 April 19, 2023, NTGE conducted an initial site visit to document details related to the release. During the site visit, NTGE collected four (4) sample points (S-1 through S-4) from depths ranging from zero (0) to one and a half (1.5) feet. Additionally, seven (7) horizontal samples (H-4 through H-10) were collected from zero (0) to six (6) inches. The samples were collected with a geotechnical hand auger to delineate the release. The samples were submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico 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 SM4500Cl-B. Analytical results indicated all soil sample concentrations were below the Table I Closure Criteria with the exception of soil sample H-8 (0-6") which had a chloride concentration of 1,280 milligram per Kilograms (mg/Kg).

On April 25, 2023, NTGE returned to the site with Standard Safety and Supply (Standard) to install test pits to further vertically delineate the historical release. NTGE collected samples from four (4) sample points (S-1 through S-4) at depths ranging from two to two and a half (2-2.5) feet to three and a half (3.5) feet. Additionally, three (3) horizontal samples (H-1 through H-3) were collected from zero (0) to six (6) inches. The samples were submitted to Cardinal for analysis of BTEX, TPH, and chloride. Analytical results indicated all concentrations were below the Table I Closure Criteria. See

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attached Table 1 Summary of Analytical Data – Delineation Samples for results and Appendix E for Laboratory Reports and Chain-of-Custody.

5. Excavation and Confirmation Sampling

Based on initial delineation assessments, Earthstone contracted Standard to perform remedial actions at the Site to include the excavation and disposal of impacted soils. The release area was excavated to a maximum depth of one (1) foot as depicted in Figure 4.

On May 16, 2023, NTGE was onsite to collect one (1) composite bottom hole (S-1) and one (1) composite sidewall (SW-1) sample from areas representing areas no larger than two hundred (200) square feet. The samples were submitted to Cardinal for analysis of BTEX, TPH, and chloride. Analytical results indicated that both samples were below the Table I Closure Criteria for all constituents of concern.

Figure 4 depicts confirmation sample location, analytical results are provided on Table 2, Summary of Soil Analytical Data – Confirmation Samples, and laboratory reports are provided in Appendix E. Sampling Notifications are attached in Appendix B and Site Photographs are provided in Appendix C.

6. Waste Management and Backfill Activities

On May 26, 2023, Standard transported 8.99 tons of impacted soil to Lea Land, LLC located thirty (30) miles east of Carlsbad, New Mexico for disposal. Upon review and analytical results, the site was backfilled with like-sourced materials and brought up to surface grade. The waste manifest for the soils is included in Appendix D.

7. Closure and Deferral Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with NMOCD regulatory standards. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone respectfully requests closure for nMLB0432442377. 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,

NTGE Project No.: 237269



Mr. Mike Bratcher
October 28, 2023
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NTG Environmental

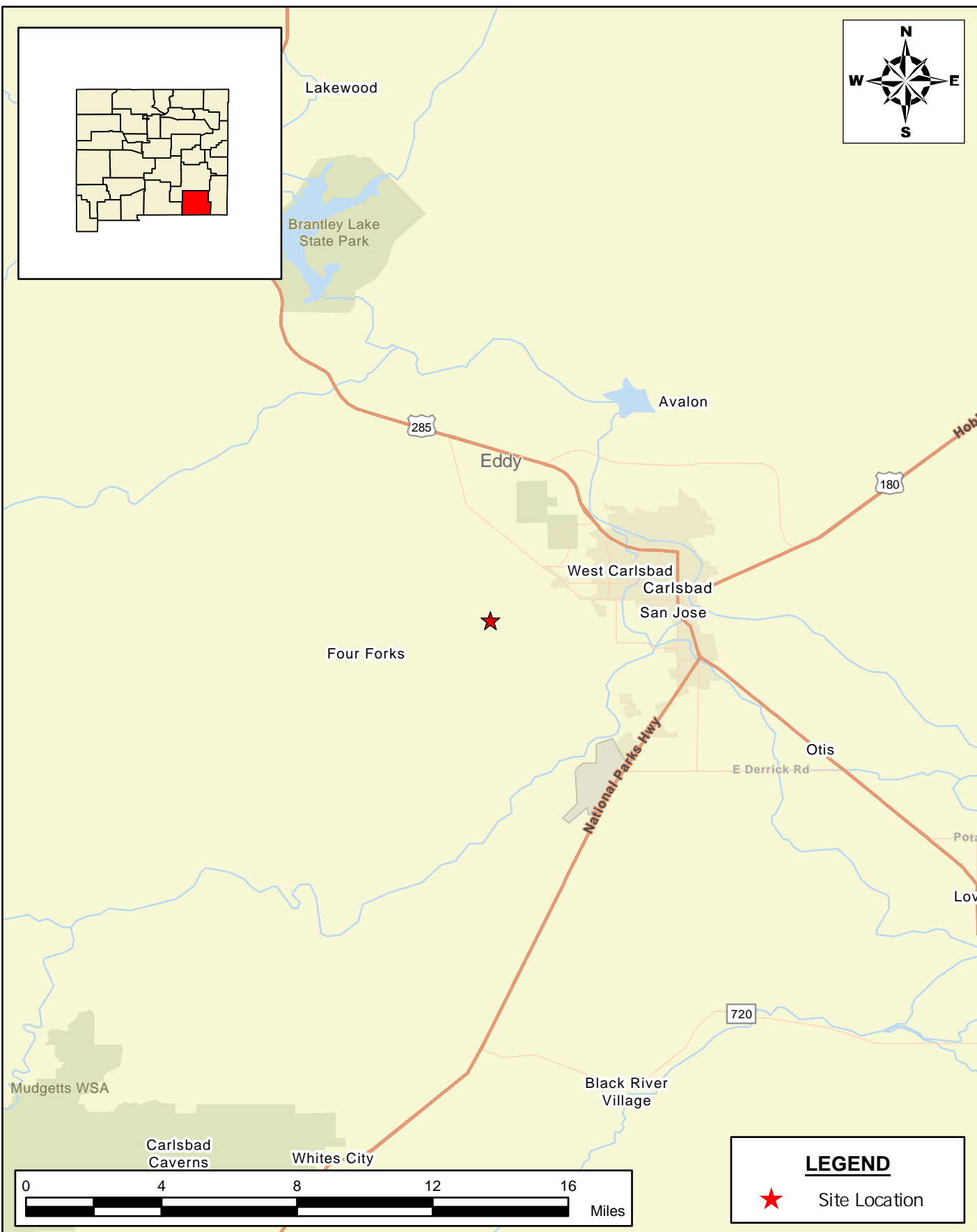
Rebecca Haskell

Rebecca Haskell
Senior Project Manager

Attachments:

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

FIGURES



SITE LOCATION MAP
EARTHSTONE OPERATION, LLC
 LANCASTER SPRING COM #1
 EDDY COUNTY, NEW MEXICO

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



NOTES:

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

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1



TOPOGRAPHIC MAP
EARTHSTONE OPERATION, LLC
LANCASTER SPRING COM #1
EDDY COUNTY, NEW MEXICO



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

NOTES:

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

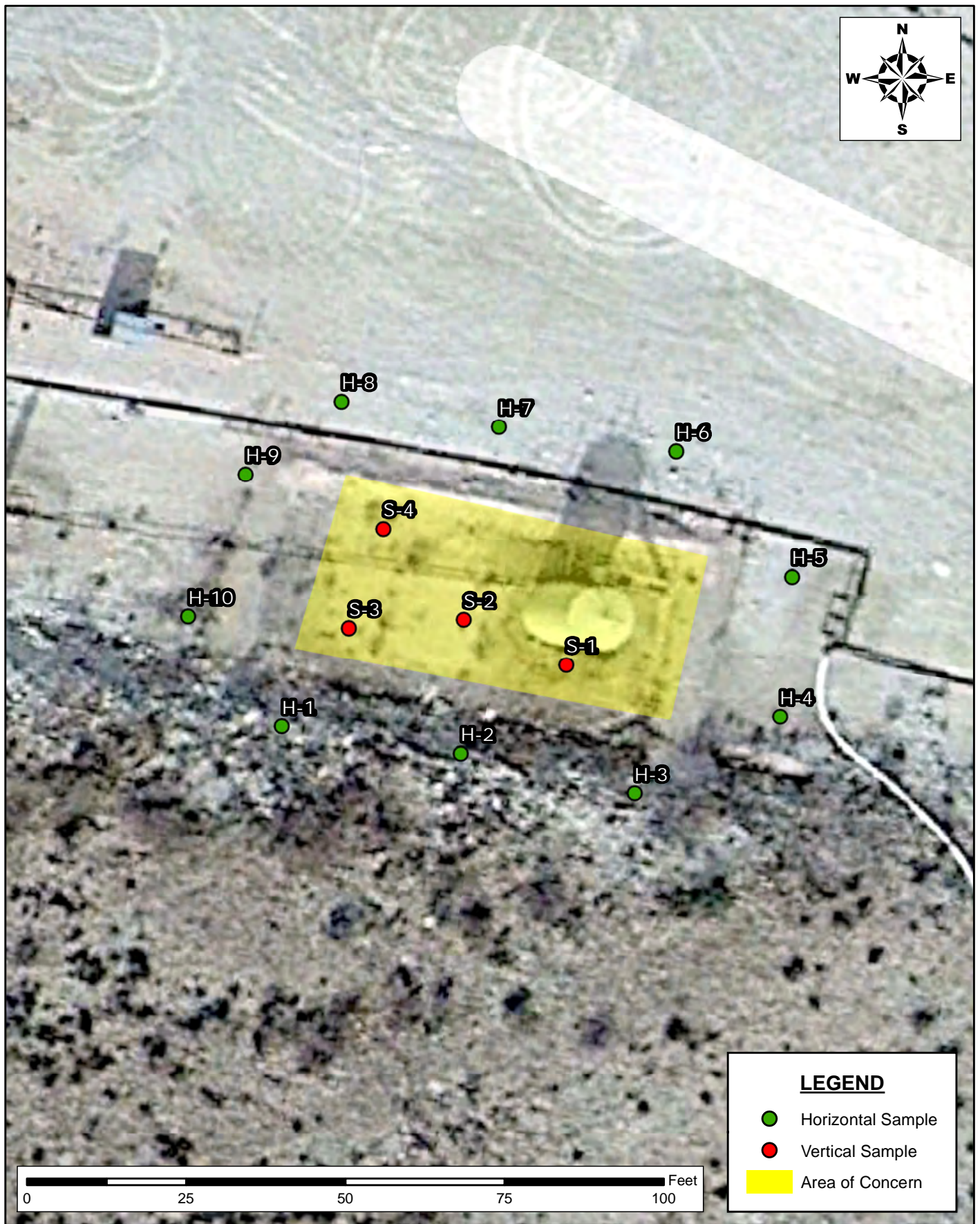
DRAWING NUMBER:

FIGURE 2

SHEET NUMBER:

1 of 1

Document Path: P:\2023 PROJECTS\EARTHSTONE\SC237269 Lancaster Spring Corn #17 - Figures\GIS\Figure_3_Closure Map.mxd



DELINEATION SOIL SAMPLING MAP
EARTHSTONE ENERGY
Lancaster Spring Corn #1
EDDY COUNTY, NEW MEXICO



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

NOTES:

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

DRAWING NUMBER:

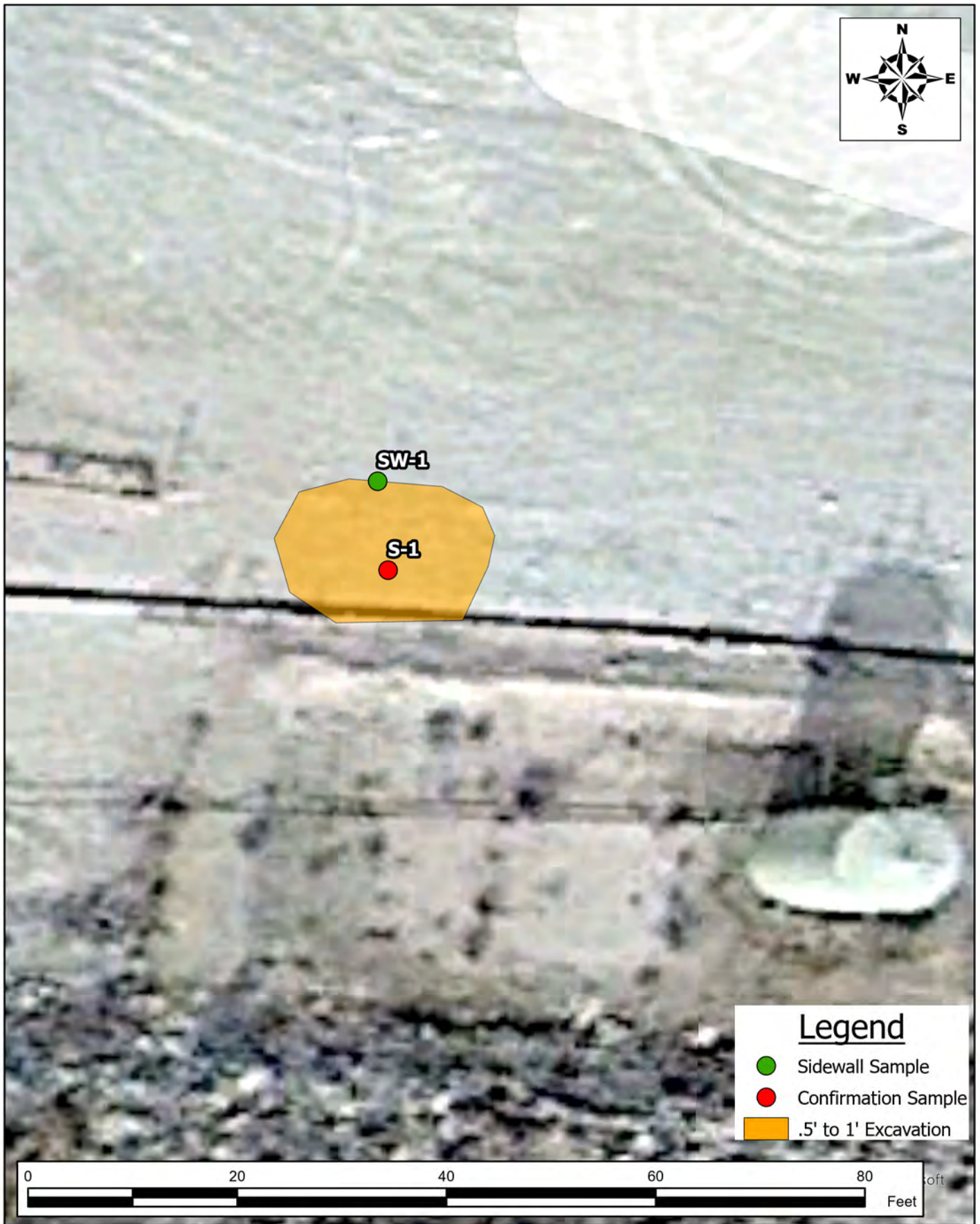
FIGURE 3

SHEET NUMBER:

1 of 1

SCALE: AS SHOWN DATE: 06/02/2023 PROJECT #: 237067

Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237269 Lancaster Spring Com #1\7 - Figures\GIS\FIG4.aprx



Legend

- Sidewall Sample
- Confirmation Sample
- .5' to 1' Excavation

CONFIRMATION SOIL SAMPLEING MAP
EARTHSTONE ENERGY
Lancaster Spring Com #1
EDDY COUNTY, NEW MEXICO


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 4
SHEET NUMBER:
1 of 1

SCALE: As Shown Date: 7/10/2023 PROJECT #: 237269

TABLES

Table 1
Summary of Soil Analytical Data - Delineation Samples
Lancaster Spring COM #1
Earthstone Operating, LLC
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	—	—	—	50 mg/kg	—	—	—	—	100 mg/kg	600 mg/kg
S-1	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
S-1	04/19/23	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
S-1	04/25/23	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
S-2	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
S-2	04/19/23	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
S-2	04/25/23	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
S-2	04/25/23	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
S-3	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
S-3	04/19/23	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
S-3	04/25/23	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
S-4	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
S-4	04/19/23	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
S-4	04/25/23	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
S-4	04/25/23	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-1	04/25/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-2	04/25/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-3	04/25/23	0-6"	<0.050	0.056	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
H-4	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-5	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
H-6	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
H-7	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
H-8	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,280
H-9	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-10	04/19/23	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B

 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 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).

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Lancaster Spring COM #1
Earthstone Operating, LLC
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	—	—	—	50 mg/kg	—	—	—	—	100 mg/kg		600 mg/kg
S-1	05/16/23	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.8	21.8	<10.0	21.8	16.0	
SW-1	05/16/23	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.1	23.1	<10.0	23.1	16.0	

Notes:

1. Values reported in mg/kg
2. < = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

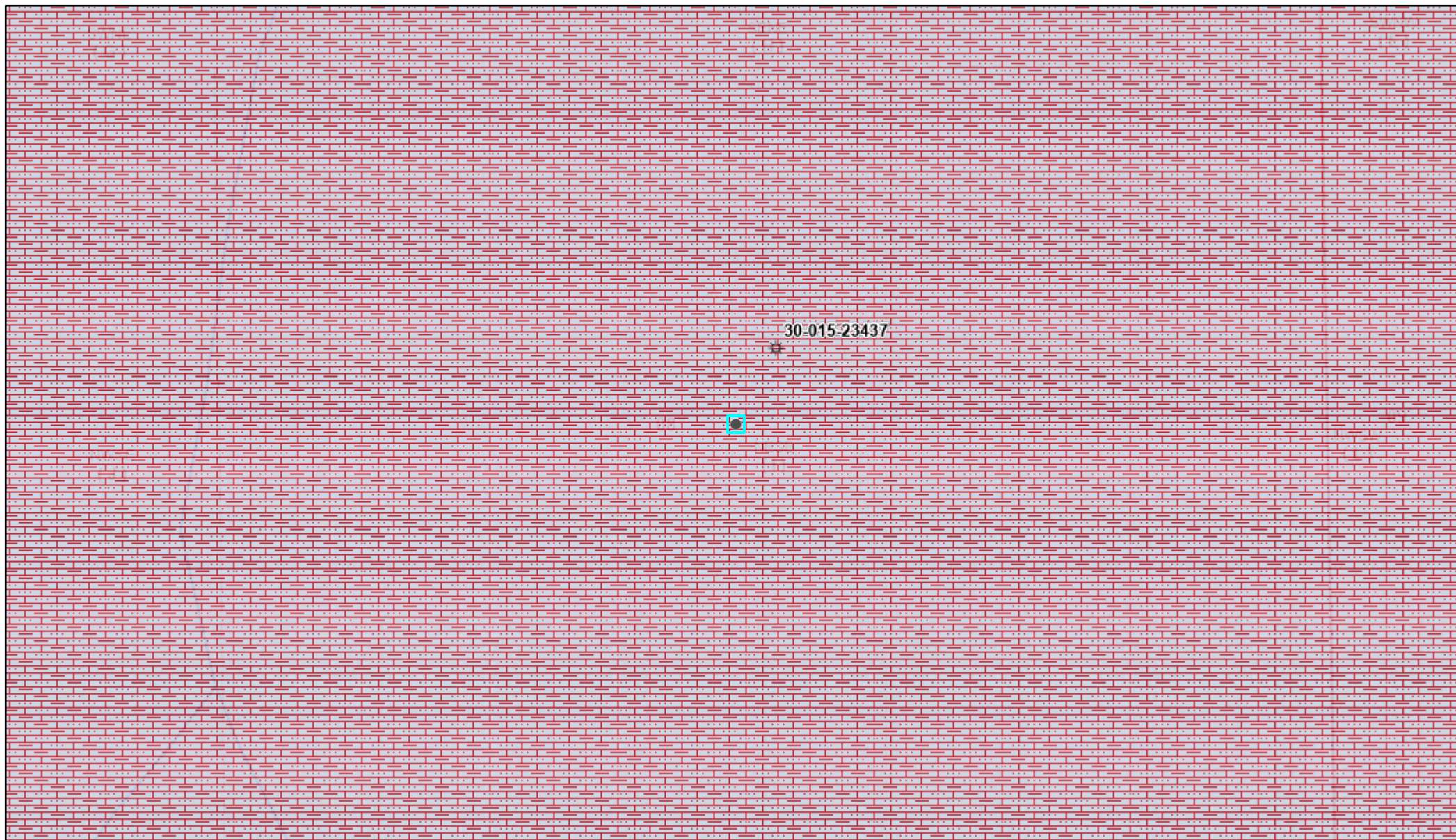
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table Closure Criteria for the site.

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).

 Sample Point Excavated

APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION

OCD Well Locations



4/27/2023, 2:36:09 PM

Wells - Large Scale Karst Occurrence Potential



Gas, Active



High



Critical Karst Resource Area

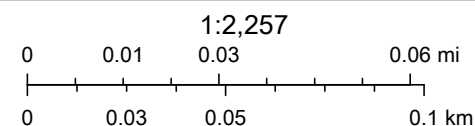
— OSE Streams



PLSS Second Division



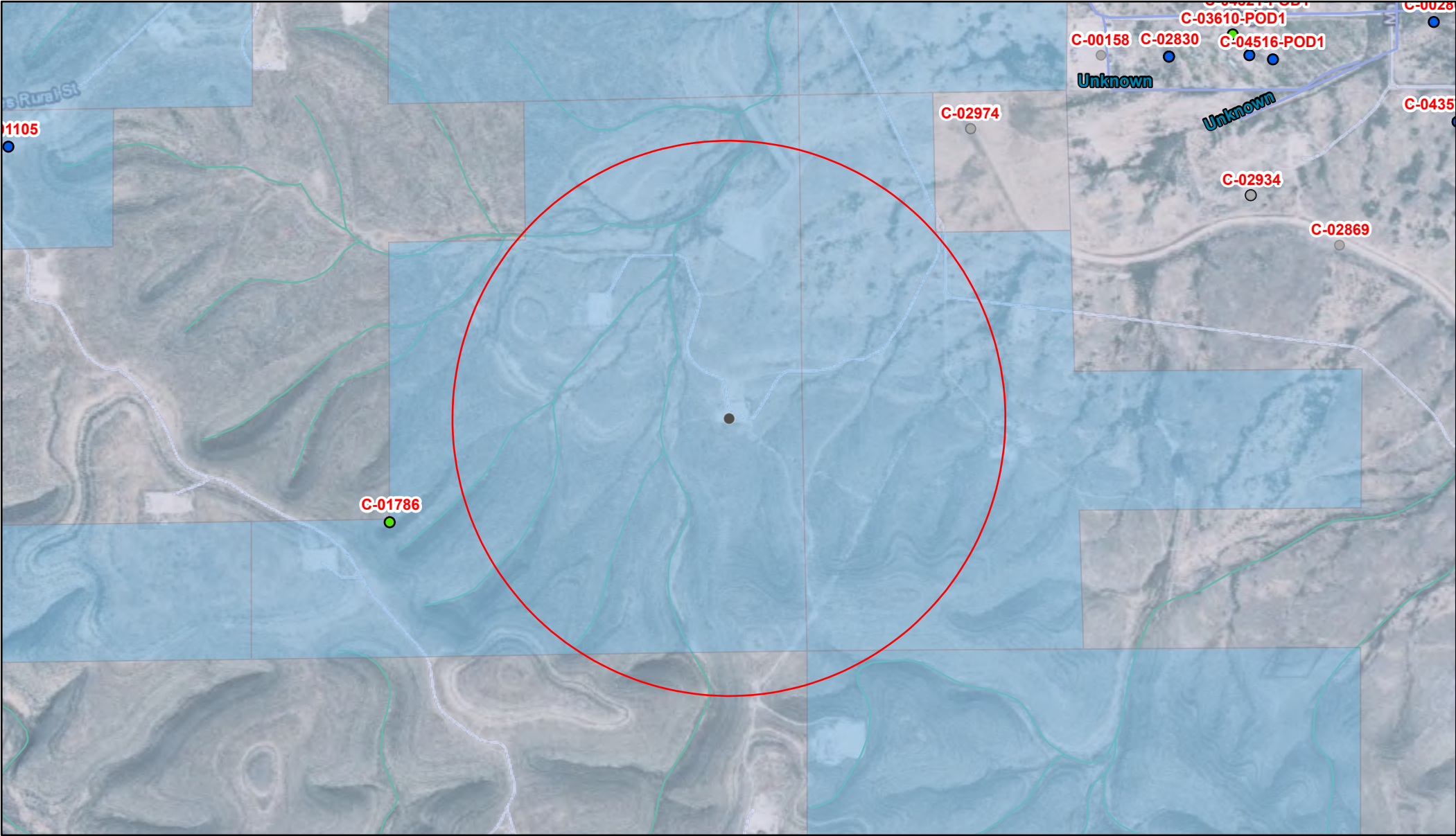
PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph,

New Mexico Oil Conservation Division

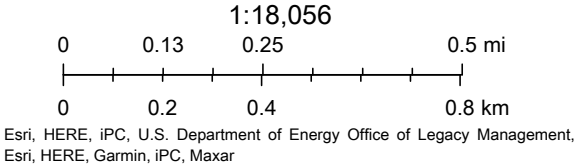
OSE POD Locations Map



4/27/2023, 3:03:27 PM

- GIS WATERS PODs
- Active
 - Pending
 - OSE District Boundary
 - Surface Water Basins
 - Lower Pecos
 - Declared Groundwater Basins

- New Mexico State Trust Lands
- Subsurface Estate
 - Both Estates
 - Conveyances
 - Ditch
 - NHD Flowlines
 - Artificial Path



Lancaster Spring COM #1

Karst

Legend

-  .5 Mile Radius
-  300 ft Radius
-  High
-  Lancaster Spring COM #1
-  Low
-  Medium




Lancaster Spring COM #1

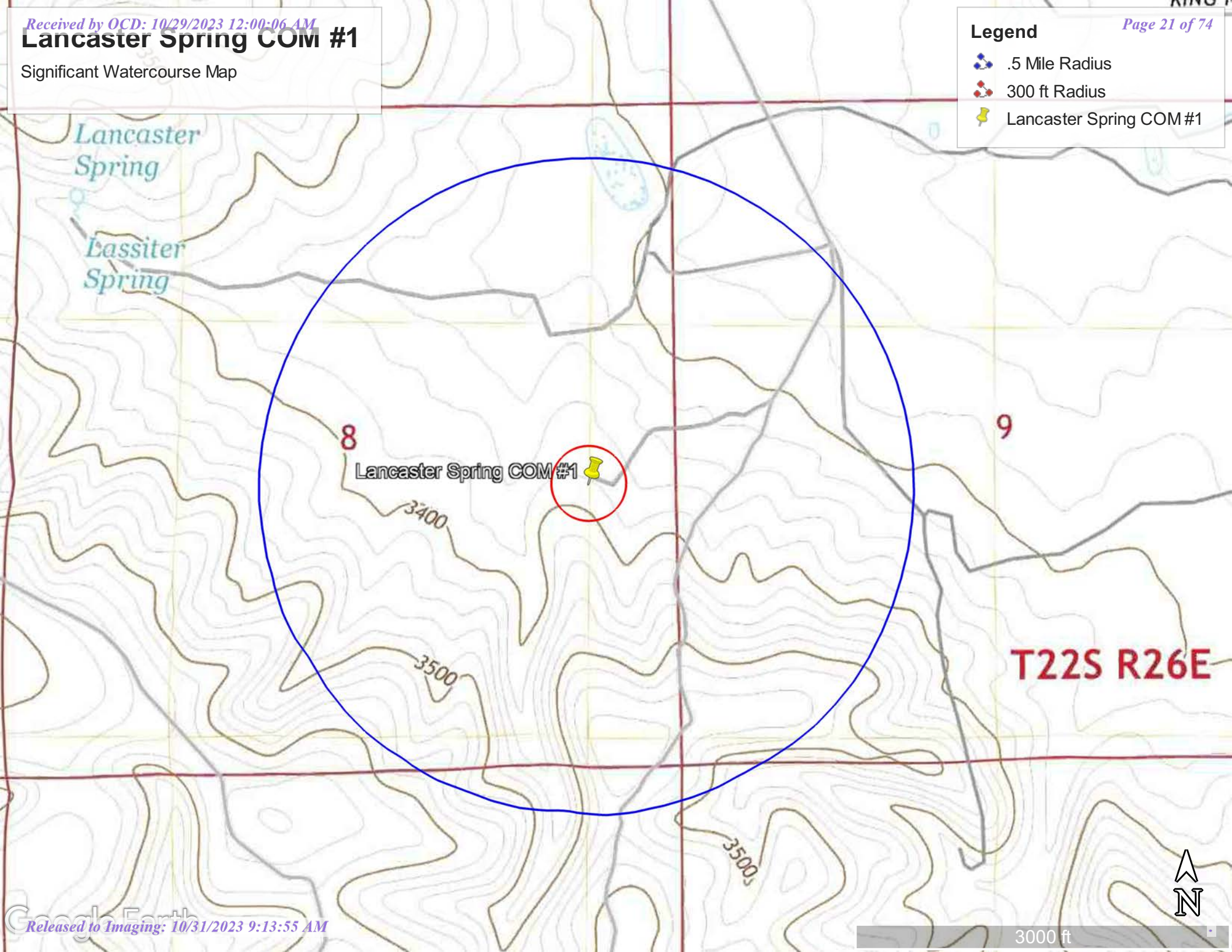


Lancaster Spring COM #1

Significant Watercourse Map

Legend

-  .5 Mile Radius
-  300 ft Radius
-  Lancaster Spring COM #1





Landcaster Spring COM #1



April 27, 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 Flood Hazard Layer FIRMette



104°18'51"W 32°24'35"N



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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **4/27/2023 at 4:24 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.

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

104°18'13"W 32°24'5"N

APPENDIX B: SAMPLING NOTIFICATIONS

From: [Enviro, OCD, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] LANCASTER SPRING COM #001
Date: Wednesday, May 10, 2023 4:35:54 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](http://www.emnrd.nm.gov)



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, May 10, 2023 1:02 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] LANCASTER SPRING COM #001

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

Good Afternoon,

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

LANCASTER SPRING COM #001
I-08-22S-26E
Eddy County, NM
nMLB0432442377

Sampling will begin at 8:00 a.m. on Monday, May 15, 2023, and continue through Friday, May 19, 2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Scientist

(432) 556-2006

Rbaer@ntglobal.com



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From: [Enviro, OCD, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] LANCASTER SPRING COM #001
Date: Wednesday, May 17, 2023 4:56:00 PM
Attachments: [image002.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](http://www.emnrd.nm.gov)



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, May 17, 2023 1:29 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>; Becky Haskell <bhaskell@ntglobal.com>
Subject: [EXTERNAL] LANCASTER SPRING COM #001

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

Good Afternoon,

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

LANCASTER SPRING COM #001

I-08-22S-26E

Eddy County, NM

nMLB0432442377

Sampling will begin at 8:00 a.m. on Monday, May 22, 2023, and continue through Friday, May 26,

2023. Please let me know if you have any questions.

Thank you,

Ricardo Baer, CSHO²

Project Scientist

(432) 556-2006

Rbaer@ntglobal.com



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From: [Buchanan, Michael, EMNRD](#)
To: [Ricardo Baer](#); [Enviro, OCD, EMNRD](#)
Cc: [Becky Haskell](#); [NTG Env Carlsbad](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] LANCASTER SPRING COM #001
Date: Friday, June 2, 2023 9:37:18 AM
Attachments: [image002.png](#)

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

Good morning, Ricardo

Received.

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.

Respectfully,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, May 31, 2023 1:32 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] LANCASTER SPRING COM #001

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

Good Afternoon,

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

LANCASTER SPRING COM #001
I-08-22S-26E

Eddy County, NM
nMLB0432442377

Sampling will begin at 8:00 a.m. on Monday, June 5, 2023, and continue through Friday, June 9, 2023. Please let me know if you have any questions.

Thank you,

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



STATEMENT OF CONFIDENTIALITY: The contents of this e-mail and its attachments are intended solely for the addressee(s) hereof. In addition, this e-mail transmission may be confidential. If you are not the named addressee, or if this message has been addressed to you in error, you are directed not to read, disclose, reproduce, distribute, disseminate or otherwise use this transmission. Delivery of this message to any person other than the intended recipients(s) is not intended in any way to waive confidentiality. If you have received this transmission in error, please alert the sender by reply e-mail; we also request that you immediately delete this message and its attachments, if any.

APPENDIX C: PHOTOGRAPHIC LOGS

PHOTOGRAPHIC LOG**Earthstone Operating, LLC
Lancaster Springs Com #1****Photograph No. 1****Facility:** Lancaster Springs Com #1**County:** Eddy County, New Mexico**Description:**
View of release area.**Photograph No. 2****Facility:** Lancaster Springs Com #1**County:** Eddy County, New Mexico**Description:**
View of the release area.**Photograph No. 3****Facility:** Lancaster Springs Com #1**County:** Eddy County, New Mexico**Description:**
Area of excavation.

PHOTOGRAPHIC LOG

Earthstone Operating, LLC
Lancaster Springs Com #1

Photograph No. 4

Facility: Lancaster Springs Com #1

County: Eddy County, New Mexico

Description:
Area of excavation.

**Photograph No. 5**

Facility: Lancaster Springs Com #1

County: Eddy County, New Mexico

Description:
Area of excavation.

**Photograph No. 6**

Facility: Lancaster Springs Com #1

County: Eddy County, New Mexico

Description:
Area of excavation.



PHOTOGRAPHIC LOG
Earthstone Operating, LLC
Lancaster Springs Com #1

Photograph No. 7

Facility: Lancaster Springs Com #1

County: Eddy County, New Mexico

Description:
Completed backfill of site.



Photograph No. 8

Facility: Lancaster Springs Com #1

County: Eddy County, New Mexico

Description:
Area of excavation.



Photograph No. 9

Facility: Lancaster Springs Com # 1

County: Eddy County, New Mexico

Description:
Area of excavation.



APPENDIX D: WASTE MANIFEST

<h1 style="margin: 0;">LEA LAND DISPOSAL SITE NEW MEXICO</h1> <p style="margin: 0;">758h MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048</p>												
<h2 style="margin: 0;">LEA LAND, LLC</h2> <p style="margin: 0;">1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257</p>												
NON-HAZARDOUS WASTE MANIFEST				NO 180049		1. PAGE ___ OF ___		2. TRAILER NO. 1996				
G E N E R A T O R	3. COMPANY NAME EARTHSTONE ENERGY			4. ADDRESS 1400 Woodloch forest Dr. Suite 300			5. PICK-UP DATE 5/26/2023					
	PHONE NO. (281) 298-4246			CITY the Woodlands			STATE TX					
				ZIP 77380			6. TNRCC I.D. NO.					
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS		9. TOTAL			
	Non-Regulated, Non-Hazardous Waste						No. 1 Type CM		QUANTITY			
											10. UNIT	
											Wt/Vol.	
											11. TEXAS	
	a.								WASTE ID #			
	b.											
c.												
d. WT: 17480												
12. COMMENTS OR SPECIAL INSTRUCTIONS: LANCASTER SPRING COM # 001							13. WASTE PROFILE NO.					
14. IN CASE OF EMERGENCY OR SPILL, CONTACT												
NAME JOE ONTIVEROS				PHONE NO. 575-887-4048				24-HOUR EMERGENCY NO.				
15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC												
CO. MAN: Christopher Martin PRINTED/TYPED NAME					SIGNATURE					DATE		
T R A N S P O R T E R S	16. TRANSPORTER (1)					17. TRANSPORTER (2)						
	NAME: Standard Safety & Supply					NAME:						
	TEXAS I.D. NO.					TEXAS I.D. NO.						
	IN CASE OF EMERGENCY CONTACT: Luis Gavaldon					IN CASE OF EMERGENCY CONTACT:						
EMERGENCY PHONE: (432) 741-2509					EMERGENCY PHONE:							
18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material							
PRINTED/TYPED NAME X Javier					PRINTED/TYPED NAME							
SIGNATURE X [Signature] DATE 5/26/2023					SIGNATURE					DATE		
D I S P O S I T O R Y	Lea Land, LLC			ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048					
	PERMIT NO. WM-01-035 - New Mexico			20. COMMENTS								
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
	AUTHORIZED SIGNATURE [Signature]			CELL NO. 2A			DATE 5/26/2023		TIME 955			

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



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

April 26, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: LANCASTER SPRING COM #1

Enclosed are the results of analyses for samples received by the laboratory on 04/19/23 15:00.

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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 0-6" (H231901-01)

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	04/22/2023	ND	1.86	92.9	2.00	0.919	
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15	
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47	
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44	
Total BTEX	<0.300	0.300	04/22/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 1-1.5' (H231901-02)

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	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 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



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: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 2 0-6" (H231901-03)

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	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-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	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 2 1-1.5' (H231901-04)

BTX 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	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTX	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 0-6" (H231901-05)

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	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 79.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 3 1-1.5' (H231901-06)

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	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 4 0-6" (H231901-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 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: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S - 4 1-1.5' (H231901-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.86	92.9	2.00	0.919		
Toluene*	<0.050	0.050	04/22/2023	ND	1.98	99.0	2.00	1.15		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.47		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.40	107	6.00	1.44		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2023	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	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 4 0-6" (H231901-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/22/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.57	110	6.00	2.93		
Total BTEx	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 5 0-6" (H231901-10)

BTX 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	04/22/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/22/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.57	110	6.00	2.93		
Total BTX	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 6 0-6" (H231901-11)

BTX 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	04/22/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/22/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/22/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/22/2023	ND	6.57	110	6.00	2.93		
Total BTX	<0.300	0.300	04/22/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 74.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 7 0-6" (H231901-12)

BTX 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	04/23/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93		
Total BTX	<0.300	0.300	04/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H - 8 0-6" (H231901-13)

BTX 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	04/23/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93		
Total BTX	<0.300	0.300	04/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1280	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
 Reported: 04/26/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 9 0-6" (H231901-14)

BTX 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	04/23/2023	ND	1.93	96.3	2.00	1.42	
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65	
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99	
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93	
Total BTX	<0.300	0.300	04/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 51.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/19/2023
Reported: 04/26/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: H - 10 0-6" (H231901-15)

BTX 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	04/23/2023	ND	1.93	96.3	2.00	1.42		
Toluene*	<0.050	0.050	04/23/2023	ND	2.08	104	2.00	3.65		
Ethylbenzene*	<0.050	0.050	04/23/2023	ND	2.10	105	2.00	1.99		
Total Xylenes*	<0.150	0.150	04/23/2023	ND	6.57	110	6.00	2.93		
Total BTX	<0.300	0.300	04/23/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2023	ND	217	109	200	22.1	
DRO >C10-C28*	<10.0	10.0	04/22/2023	ND	213	107	200	22.6	
EXT DRO >C28-C36	<10.0	10.0	04/22/2023	ND					

Surrogate: 1-Chlorooctane 73.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTG		BILL TO		ANALYSIS REQUEST	
Project Manager: Betsy Hasbelle		P.O. #:			
Address: 701 Ironclads Blvd		Company: Earthstone			
City: Midland		Attn: Chris North			
State: TX Zip: 79701		Address:			
Phone #: 432-766-1918 Fax #:		City:			
Project #: 237269 Project Owner:		State:			
Project Name: Lancaster Spring Com #1		Zip:			
Project Location: Edley Co, NM		Phone #:			
Sampler Name: Kenny Hsu		Fax #:			
FOR LAB USE ONLY		MATRIX		PRESERV	
Lab I.D.		Sample I.D.		DATE	
H33Pb1		S-1		4/19/23	
1 S-1		0-6"		X	
2 S-1		1-1.5'		X	
3 S-2		0-6"		X	
4 S-2		1-1.5'		X	
5 S-3		0-6"		X	
6 S-3		1-1.5'		X	
7 S-4		0-6"		X	
8 S-4		1-1.5'		X	
9 H-4		0-6"		X	
10 H-5		0-6"		X	
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Relinquished By: [Signature]		Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Date: 4/19/2023		Time: 1500		All Results are emailed. Please provide Email address:	
Relinquished By: [Signature]		Received By: [Signature]		REMARKS: Billing code = EARTHSTONE	
Date: 4/19/2023		Time: 1500			
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
				Checked BY: [Signature]	
				Turnaround Time: Standard	
				Thermometer ID #113	
				Correction Factor -0.6°C	
				Bacteria (only) Sample Condition	
				Cool Intact <input type="checkbox"/>	
				Yes <input type="checkbox"/> No <input type="checkbox"/>	
				Observed Temp. °C	
				Corrected Temp. °C	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: MITGE		BILL TO		ANALYSIS REQUEST		
Project Manager: Becky Hagbell		P.O. #:				
Address: 701 Marland Blvd		Company: Earthstone				
City: Marland		Attn: Chris Merhn				
State: TX Zip: 79701		Address:				
Phone #: 432-766-1948 Fax #:		City:				
Project #: 237264 Project Owner:		State:				
Project Name: Lancaster Spring Lm # 7		Zip:				
Project Location:		Phone #:				
Sampler Name:		Fax #:				
FOR LAB USE ONLY						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING
				GROUNDWATER		
				WASTEWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER:		
				ACID/BASE:		
				ICE / COOL		
				OTHER:		
				DATE	TIME	
H231901	H-6	G-6"	7	4/19/23		BTEX
11	H-7	D-6"	7			Chloride
12	H-8	D-6"				TPH
13	H-9	D-6"				
14	H-10	D-6"				
15						
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Relinquished By: [Signature]		Date: 4/19/2023		Received By: [Signature]		
Relinquished By:		Date:		Received By:		
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		1.8		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
Sampler - UPS - Bus - Other:		Corrected Temp. °C		CHECKED BY: (Initials)		
1.2				[Signature]		
Turnaround Time:		Standard		Bacteria (only)		
Rush		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
Thermometer ID #113		Corrected Temp. °C		Observed Temp. °C		
Correction Factor -0.5°C						
REMARKS: Billing code EARTHSTONE						
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:						
All Results are emailed. Please provide Email address:						

FORM 000 R 3.3 07/10/22

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



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

April 28, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: LANCASTER SPRING COM #1

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 12:52.

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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 1 2-2.5' (H232004-01)

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	04/26/2023	ND	1.97	98.4	2.00	2.13	
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458	
Total BTEX	<0.300	0.300	04/26/2023	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	48.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 2-2.5' (H232004-02)

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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-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	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 2 3-3.5' (H232004-03)

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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: S - 3 2-2.5' (H232004-04)

BTX 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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTX	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
Reported: 04/28/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 2-2.5' (H232004-05)

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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
Reported: 04/28/2023
Project Name: LANCASTER SPRING COM #1
Project Number: 237269
Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: S - 4 3-3.5' (H232004-06)

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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 1 0-6" (H232004-07)

BTX 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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTX	<0.300	0.300	04/26/2023	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	32.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 2 0-6" (H232004-08)

BTX 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	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	<0.050	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTX	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/25/2023
 Reported: 04/28/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H - 3 0-6" (H232004-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2023	ND	1.97	98.4	2.00	2.13		
Toluene*	0.056	0.050	04/26/2023	ND	1.97	98.5	2.00	2.81		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.02	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.24	104	6.00	0.458		
Total BTEx	<0.300	0.300	04/26/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	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	04/26/2023	ND	206	103	200	5.93	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	195	97.5	200	4.31	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: VTGE		BILL TO		ANALYSIS REQUEST																							
Project Manager: Betsy Haskell		P.O. #:																									
Address: 701 Tradecon Blvd		Company: Earthstone																									
City: Midland		Attn: Chris Welch																									
State: TX		Address:																									
Zip: 79701		City:																									
Phone #: 432-766-1418		State:																									
Fax #: 237-269		Zip:																									
Project #: 237269		Project Owner:																									
Project Name: Lanester Spring		Com # 2																									
Project Location: Eddy Co, NM		Phone #:																									
Sample Name: Henry Han		Fax #:																									
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																					
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
S-1		2-2.5'		6		X				4/25/23																	
S-2		2-2.5'		7																							
S-3		3-3.5'																									
S-4		2-2.5'																									
S-5		3-3.5'																									
H-1		0-6"																									
H-2		0-6"																									
H-3		0-6"																									

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Relinquished By: [Signature]	Date: 4/25/23	Received By: [Signature]	Date: 4/25/23
Relinquished By: [Signature]	Date: 4/25/23	Received By: [Signature]	Date: 4/25/23

Delivered By: (Circle One) **Observed Temp. °C: 2.14** **Sample Condition: Cool Intact** **CHECKED BY: [Signature]**

Sampler - UPS - Bus - Other: **Corrected Temp. °C: 1.52** **Yes** **No** **Yes** **No**

REMARKS: **Billing Note: EARTHSTONE**

Turnaround Time: **Standard** **Rush** **Bacteria (only) Sample Condition: Cool Intact** **Observed Temp. °C: 1.52** **Corrected Temp. °C: 1.52**

Thermometer ID #113 **Correction Factor: 0.8°C** **Yes** **No** **Yes** **No**

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:

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



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

May 22, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: LANCASTER SPRING COM #1

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 12:05.

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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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: 05/17/2023
 Reported: 05/22/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - 1 (1') (H232494-01)

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	05/20/2023	ND	2.42	121	2.00	6.00		
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44		
Total BTEX	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/18/2023	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	05/18/2023	ND	220	110	200	0.527	
DRO >C10-C28*	21.8	10.0	05/18/2023	ND	217	109	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/18/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/17/2023
 Reported: 05/22/2023
 Project Name: LANCASTER SPRING COM #1
 Project Number: 237269
 Project Location: EARTHSTONE -EDDY COUNTY, NM

Sampling Date: 05/16/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 (0-1') (H232494-02)

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	05/20/2023	ND	2.42	121	2.00	6.00	
Toluene*	<0.050	0.050	05/20/2023	ND	2.40	120	2.00	6.73	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	6.32	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	7.09	118	6.00	7.44	
Total BTEx	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/18/2023	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	05/19/2023	ND	220	110	200	0.527	
DRO >C10-C28*	23.1	10.0	05/19/2023	ND	217	109	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

H232494

Page 5 of 5

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. Marientfeld, 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 <input type="checkbox"/> PR <input type="checkbox"/> Brownfield <input type="checkbox"/> R <input type="checkbox"/> Super <input type="checkbox"/>	State of Project:
Reporting Level: <input type="checkbox"/> Level <input type="checkbox"/> PST/UT <input type="checkbox"/> TR <input type="checkbox"/> L <input type="checkbox"/> B <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:		Lancaster Spring Com #1		Turn Around		Press. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number:		237269		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																	
Project Location:		Eddy Co. NM		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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														
Received In tact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	113															
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.16															
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-5.0															
Total Containers:				2	Corrected Temperature:	-5.6															
Sample Identification		Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters												Sample Comments	
S-1 (1')		5/16/2023		X		Comp	1	BTEX 8021B													
SW-1 (0-1')		5/16/2023		X		Comp	1	TPH 8015M (GRO + DRO + MRO)													
								Chloride 4500													
								HOLD													

Additional Comments:

Billing Code: EARTHSTONE

KH 5/17/23

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 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 Xenco. A minimum charge of \$95.00 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
<i>[Signature]</i>	<i>[Signature]</i>	5/17/23 8:45am	<i>[Signature]</i>	<i>[Signature]</i>	5-17-23 1205

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 280549

CONDITIONS

Operator: Earthstone Operating, LLC 1400 Woodloch Forest; Ste 300 The Woodlands, TX 77380	OGRID: 331165
	Action Number: 280549
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	10/31/2023