

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2315638319
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Earthstone Operating, LLC	OGRID 331165
Contact Name Chris Martin	Contact Telephone 432-253-9998 Ext. 2653
Contact email cmartin@earthstoneenergy.com	Incident # (assigned by OCD) nAPP2315638319
Contact mailing address 600 N. Marienfeld, Suite 1000, Midland, TX 79701	

Location of Release Source

Latitude 32.311351 Longitude -104.286988
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Dark Canyon 15-22 State WCB 2H	Site Type Separator
Date Release Discovered 5/24/23	API# (if applicable) 30-015-44538

Unit Letter	Section	Township	Range	County
D	15	23S	26E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 20	Volume Recovered (bbls) 15
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release Nipple under separator blew a pin size hole causing a mess. Shut well in, drain separator, blow down separator. Replace nipple.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Rebecca Haskell</u>	Title: <u>Senior Project Manager</u>
Signature: <u></u>	Date: <u>6/5/23</u>
email: <u>bhaskell@ntglobal.com</u>	Telephone: <u>432-766-1918</u>
<u>OCD Only</u> Received by: _____ Date: _____	

Incident ID	nAPP2315638319
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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.


State of New Mexico
Oil Conservation Division

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Printed Name: Jeffrey Kindley Title: Senior Project Manager/Geologist

Signature:  Date: 10/30/23

email: jkindley@ntglobal.com Telephone: (432) 230-0920

OCD Only

Received by: Shelly Wells Date: 10/31/2023

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Closure


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

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

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

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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Cause of Release Nipple under separator blew a pin size hole causing a mess. Shut well in, drain separator, blow down separator. Replace nipple.

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Printed Name: <u>Rebecca Haskell</u>	Title: <u>Senior Project Manager</u>
Signature: <u></u>	Date: <u>6/5/23</u>
email: <u>bhaskell@ntglobal.com</u>	Telephone: <u>432-766-1918</u>
<u>OCD Only</u> Received by: _____ Date: _____	

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

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

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Oil Conservation Division

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Printed Name: Jeffrey Kindley Title: Senior Project Manager/GeologistSignature:  Date: 10/30/23email: jkindley@ntglobal.com Telephone: (432) 230-0920**OCD Only**

Received by: _____ Date: _____

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Closure

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Printed Name: Jeffrey Kindley Title: Senior Project Manager/Geologist

Signature:  Date: 10-30/23

email: jkindley@ntglobal.com Telephone: (432)-230-0920

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

October 30, 2023

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

**Re: Site Characterization and Deferral/Closure Request
Dark Canyon 15-22 State WCB 2H
Earthstone Operating, LLC
Site Location: Unit D, S15, T23S, R26E
(Lat 32.311268°, Long -104.287721°)
Eddy County, New Mexico
Incident ID: nAPP2315638319**

1. Introduction

On behalf of Earthstone Operating, LLC (Earthstone), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Closure/Deferral Report for the NMOCD District 2 Office in Artesia, New Mexico for documentation of site assessment and remedial action activities at the Dark Canyon 15-22 State WCB 2H (Site). The Site is located within Unit Letter D, Section 15 of Township 23 South and Range 26 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.311268° N latitude and -104.287721 W Longitude. The release occurred on land owned by the State of New Mexico. Figure 1 depicts the site location with respect to the nearest town and Figure 2 shows the topographic map of the site.

2. Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release occurred on May 24, 2003, due to a failed nipple beneath the separator. Approximately Twenty (20) barrels of produced water were released with fifteen (15) bbls recovered for a net loss of five (5) bbls. Upon discovery, the wells were shut-in, the separator drained, faulty nipple was replaced, and the area secured. The release footprint is shown on Figure 3. The Release Notification Site Assessment/Characterization, and Closure portions of Form C-141 for incident number nAPP2315638319 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 and USGS databases, there are no known depth to groundwater sources and or features within a ½-mile radius of the location. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) are located within each specific boundary or distance from the Site.

Mr. Mike Bratcher
October 30, 2023
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According to the Karst map the site is located within a Critical Karst area. The site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is 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+MRO)	TPH (GRO+DRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Soil Delineation Activities and Analytical Results

On June 19, 2023, NTGE was on-site to conduct an initial delineation assessment whereby three (3) vertical sample points (V-1 through V-3) and four (4) horizontal sample points (H-1 through H-4) were installed in order to delineate the area. The samples were collected from depths ranging from zero (0) to a maximum of four and a half (4.5) feet (ft) below ground surface (bgs) with a geotechnical hand auger and submitted to Cardinal Laboratories (Cardinal) of Hobbs, New Mexico for analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by EPA Method 8015 modified, and chloride by EPA Method SM4500Cl-B. Analysis indicated that V-2 at surface to 0.5 ft bgs, 2-4.5 ft bgs and V-3 from 0-4.5 ft bgs exceeded the chloride limits for the Table 1 standards.

On June 21, 2023, NTGE was on-site to conduct an additional delineation assessment whereby one (1) vertical sample point (V-4) and two (2) horizontal sample points (H-5 and H-6) were installed in order further delineate the area. The samples were collected from depths ranging from zero (0) to a maximum of four and a half (4.5) feet (ft) below ground surface (bgs) with a geotechnical hand auger and submitted to Cardinal for analyses of BTEX, TPH and chloride. Analysis indicated that all samples were below the Table 1 standards for all analytes analyzed.

On June 28, 2023, NTGE was on-site to conduct a final delineation assessment whereby three (3) additional vertical sample points (V-5 through V-7) were installed to complete the

Mr. Mike Bratcher
October 30, 2023
Page 3 of 5

delineation of the area. The samples were collected from depths ranging from zero (0) to a maximum of four and a half (4.5) ft bgs with a geotechnical hand auger and submitted to Cardinal for analyses of BTEX, TPH and chloride. Analytical results indicated that V-7 exceeded the Table 1 Standards for chlorides at zero (0) to half a foot (0.5) ft bgs. All remaining analytical results were below the Table 1 Standards. Figure 3 depicts the initial delineation sample locations, with analytical results provided on Table 1, Summary of Soil Analytical Data. Laboratory reports are included in Appendix D.

5. Remedial Action Activities and Confirmation Sampling

Based on the initial assessment results, Standard Safety and Supply (Standard), proceeded with the remedial actions at the Site to include the excavation and disposal of impacted soils above the regulatory limits. All samples were collected based on one (1) composite sample per 200 square feet (ft²) of surface area for both bottom and sidewalls and submitted to Cardinal Labs of Hobbs, New Mexico for analysis of BTEX by EPA Method 8021B, TPH by EPA Method 8015M, or chlorides by EPA Method SM4500Cl-B.

Upon completion of initial excavation activities, NTGE was on-site September 5, 2023, to collect eleven (11) base composite samples (CS-1 through CS-11) ranging from depths of one (1) ft bgs to four (4) ft bgs and ten (10) sidewall samples (SW-1 through SW-10) ranged from surface to four (4) ft bgs and submitted to Cardinal Labs for analysis. Analytical results indicated that sixteen (16) of the samples (CS-1 through CS-5, CS-7 through CS-11, SW-1, SW-4, SW-5, SW-7, SW-8 and SW-10) exhibited chloride concentrations above the Table 1 Closure Criteria. In addition, CS-1 exhibited TPH concentrations above the Table 1 Closure Criteria.

On September 25, 2023, after further excavation by Standard, NTGE conducted a confirmation sampling event, whereby twelve (12) additional composite bottom hole confirmation samples (CS-1A through CS-5A, CS-7A through CS-11A, CS-12 and CS-13) and eleven (11) sidewall samples (SW-1A, SW-2A, SW-4A, SW-5A, SW-7A, SW-8A, SW 10A and SW-11 through SW-14) were collected and submitted to Cardinal Labs for analysis. Analytical results for soil samples CS-6A, CS-11A and SW-7A exhibited chloride concentrations above the Table 1 Closure Criteria.

On October 12, 2023, after further excavation by Standard, NTGE conducted a confirmation sampling event, whereby two (2) additional composite bottom hole confirmation samples (CS-8B and CS-14) and two (2) sidewall samples (SW-8B and SW-9A) were collected and submitted to Cardinal Labs for analysis. In addition, two (2) deferral vertical samples (DV-1 @ 3-3.5' and 4-4.5') and three (3) deferral horizontal samples (DH-1 through DH-3) at depths ranging from zero to half a foot (0-0.5) ft bgs were collected around the separators and submitted to Cardinal Labs for analysis. Soil samples CS-8B, CS-14 and SW-8B exhibited chloride concentrations above the Table 1 Closure Criteria. All deferral samples were below the Table 1 Closure Criteria.

On October 18, 2023, after further excavation by Standard, NTGE conducted a confirmation sampling event to collect two (2) composite bottom hole confirmation samples (CS-8C and CS-14A) and four (4) sidewall samples (SW-8C, SW-9B, SW-15A and SW-

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16). The samples were collected and submitted to Cardinal Labs for analysis. All sample analytical concentration results were below the Table 1 Closure Criteria. See Table 2 for the analytical results and Figure 4 for the confirmation sampling locations. Soil sample SW-8C exhibited chloride concentrations above the Table 1 Closure Criteria. Laboratory Analytical Reports are provided in Appendix D. A photographic log is provided as Appendix B and Confirmation Sampling Notifications are provided as Appendix C.

6. Soils Disposition and Backfill Activities

Between September 22 and September 28, 2023, approximately 331.69 tons of impacted material was transported offsite for disposal at Lea Land, LLC located in Carlsbad, New Mexico. Upon completion of the excavation, the site was backfilled with like-sourced materials and brought up to surface grade. Manifests are available upon request and aren't included in this report due to the size of the file.

7. Closure/Deferral Request

Based on the assessment, remediation efforts, and requisite confirmation sampling, the Site is in compliance with the NMOCD regulatory standards with the exception of the areas of CS-11A, SW-7A, and SW-8C adjacent to the onsite separators. Further remediation of the area around the separators was not feasible due to tight quarters and possible destabilization of the equipment. As such, an area measuring approximately four (4) ft by ten (10) ft or eighty-seven and a half (87.5) ft² was left in-situ. Deferral samples DV-1 and DH-1 through DH3 were placed within and adjacent to the separators and impact area to verify the soils have not been impacted. All these deferral samples were below the Table 1 Closure Criteria standards. Based on the supporting documentation provided in this report, NTGE, on behalf of Earthstone respectfully requests closure for nAPP2315638319 with deferral of soils left in-situ above NMOCD standards near soil samples CS-11A, SW-7A, and SW-8C, until time of abandonment or upgrade of equipment allows for accessibility to the area. The Release Notification, Site Assessment/Characterization, and Closure portion of NMOCD form C-141 area included in the front of this report.

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

Sincerely,
NTG Environmental



Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

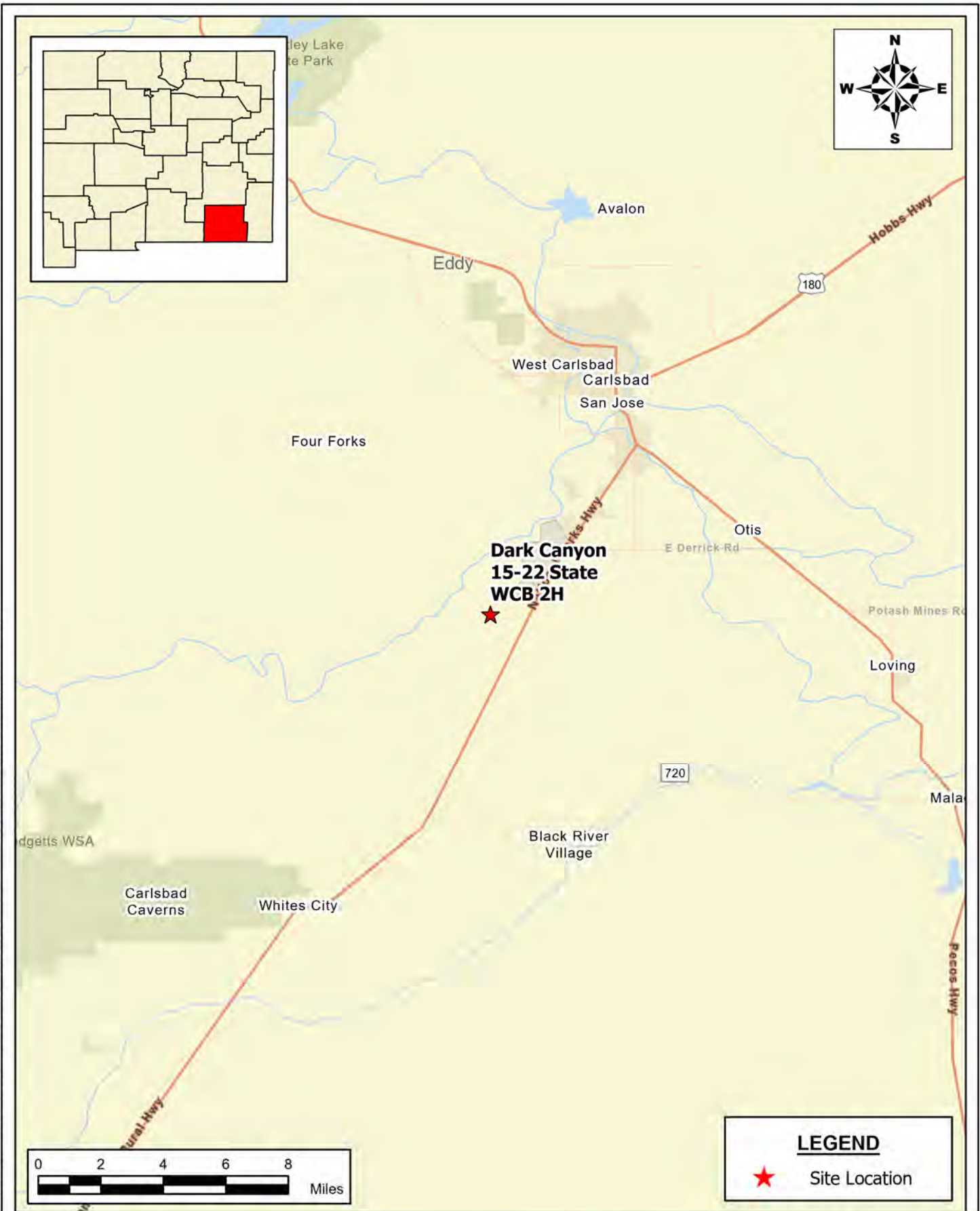
Figure 1 – Site Location Map

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October 30, 2023
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Figure 2 – Topographic Map
Figure 3 – Delineation Sample Location Map
Figure 4 – Confirmation/Deferral Sample Location Map
Table 1 Summary of Soil Analytical Data – Delineation Samples
Table 2 Summary of Soil Analytical Data – Confirmation/Deferral Samples
Appendix A – Site Characterization Documentation
Appendix B – Photographic Log
Appendix C – Confirmation Sampling Notifications
Appendix D – Laboratory Reports and Chain-of-Custody Documents

FIGURES

Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H7 - Figures\GIS\Figure_1_SLMMap_08082023.aprx



SITE LOCATION MAP
EARTHSTONE OPERATING, LLC
DARK CANYON 15-22 STATE WCB 2H
EDDY COUNTY, NEW MEXICO
32.311268, -104.287721

SCALE: As Shown Date: 10/30/2023 PROJECT #: 237454

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



NOTES:

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

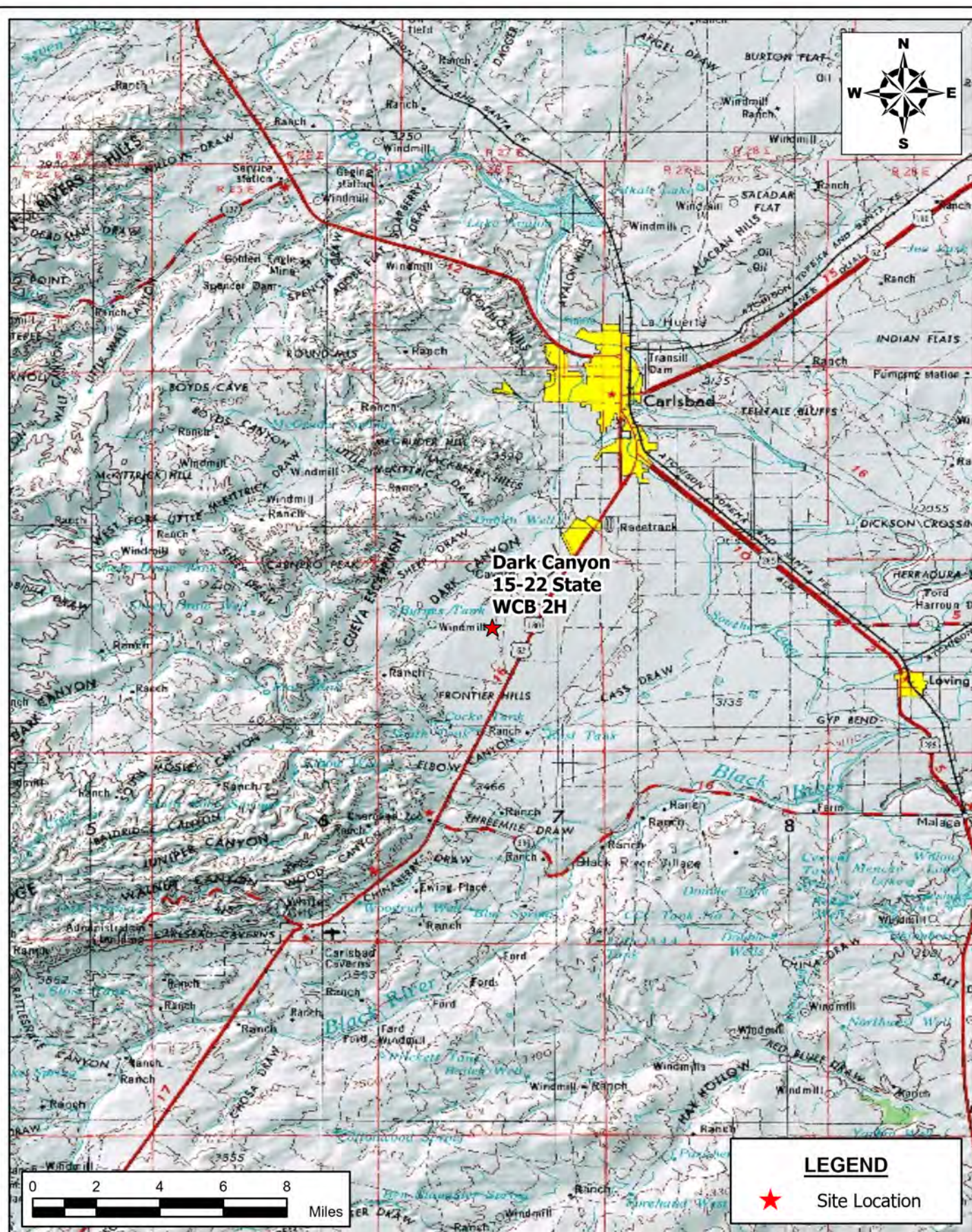
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FIGURE 1

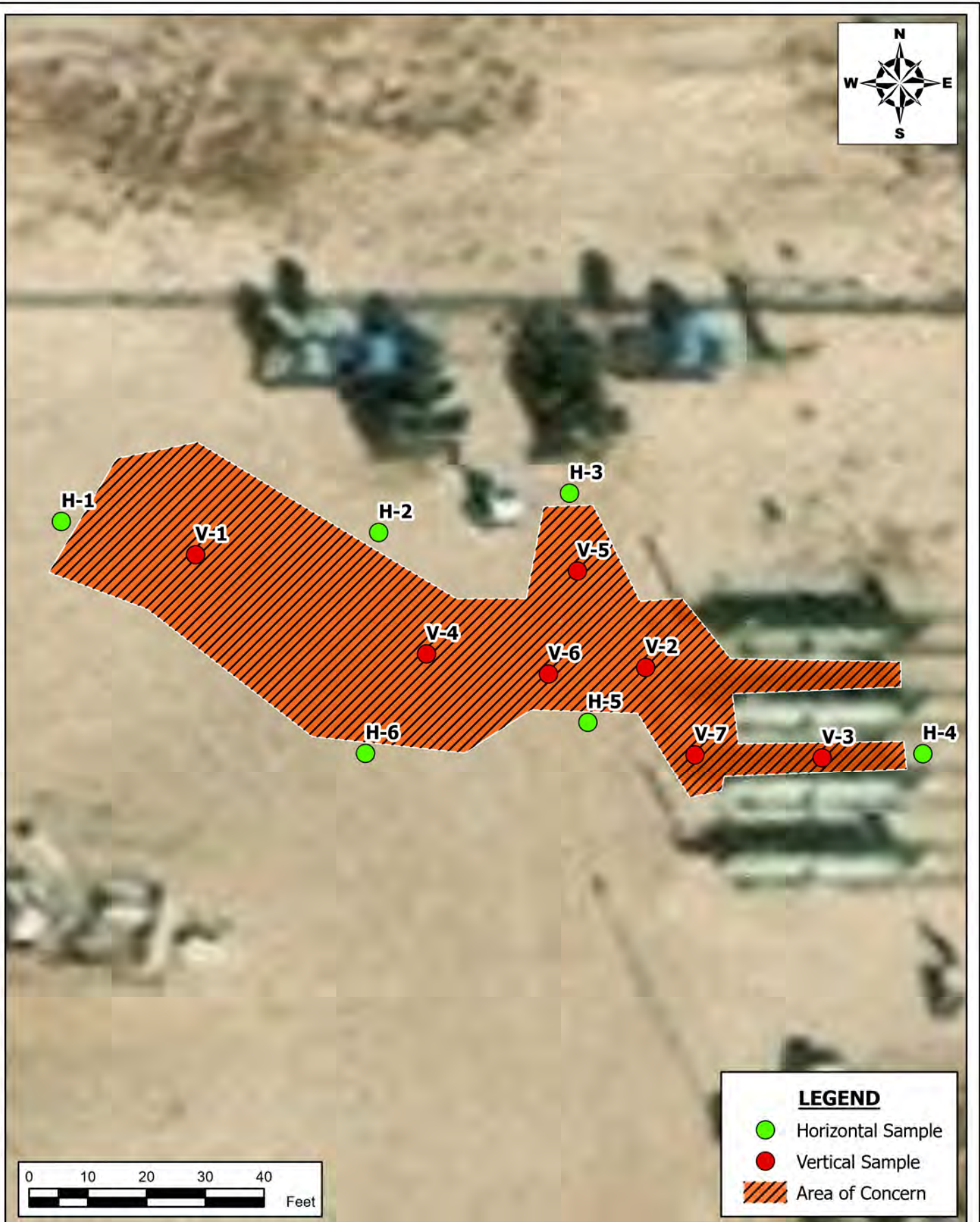
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1 of 1

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Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H\7 - Figures\GIS\Figure_3_SiteAssessmentMap_08162023.aprx



DELINATION SAMPLE MAP
EARTHSTONE OPERATING, LLC
 DARK CANYON 15-22 STATE WCB 2H
 EDDY COUNTY, NEW MEXICO
 32.311268, -104.287721

SCALE: As Shown

Date: 10/30/2023

PROJECT #: 237454



New Tech Global Environmental, LLC
 911 Regional Park Drive
 Houston, Texas 77060
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NOTES:

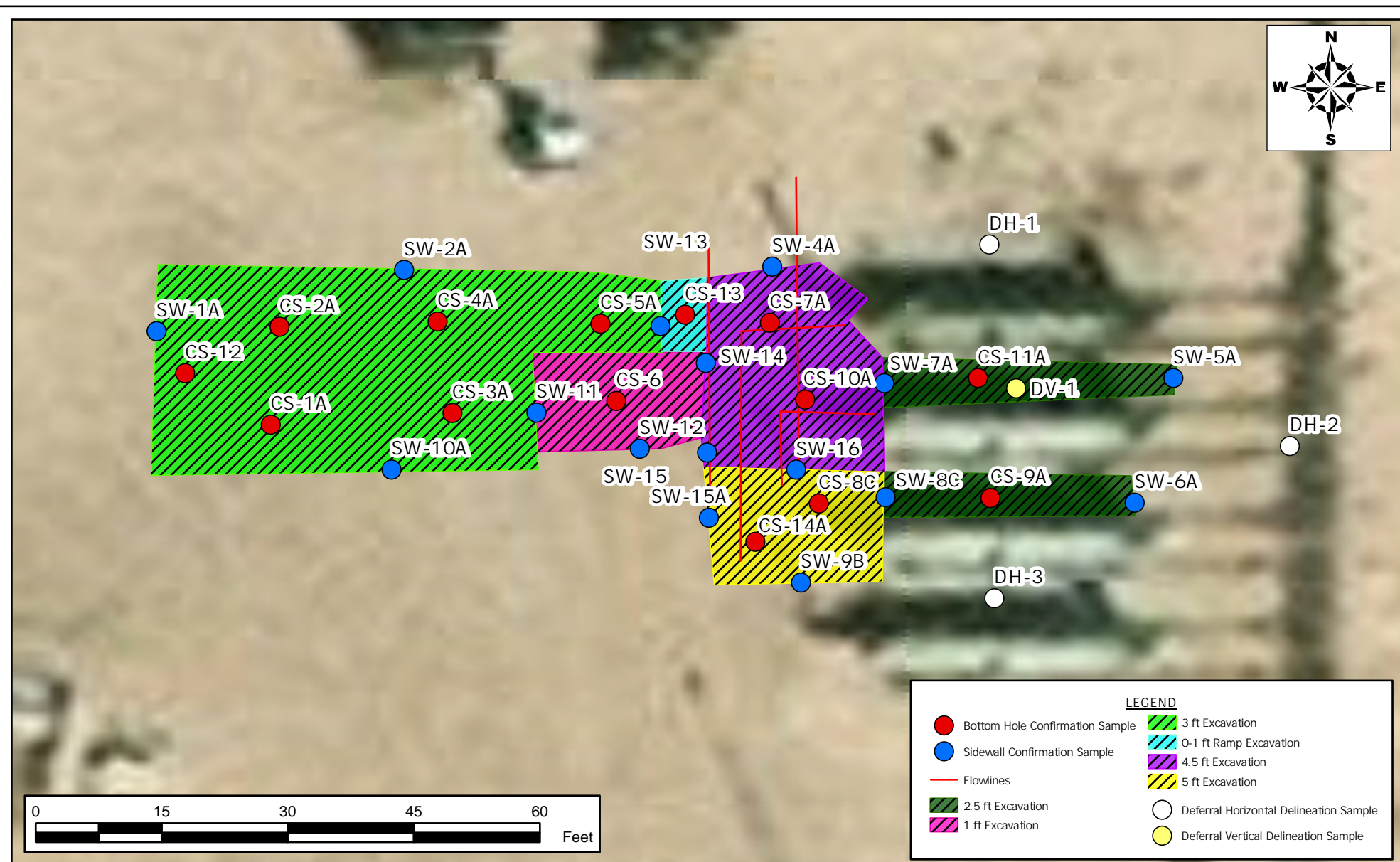
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N
3. Results in Milligrams Per Kilograms (MG/KG)
4. See Table 1 for Full Analytical Results/Details
5. Yellow Cells Indicate Exceedance

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1



Document Path: P:\2023 PROJECTS\EARTHSTONE\RSC\237454 Dark Canyon 15-22 State WCB 2H7 - Figures\GIS\Figure_4_Confirmation Sample\Map_10282023.aprx

1 of 1	SHEET NUMBER	DRAWING NUMBER	FIGURE 4	CONFIRMATION SAMPLE MAP EARTHSTONE OPERATING, LLC DARK CANYON 15-22 STATE WCB 2H EDDY COUNTY, NEW MEXICO 32.311351, -104.286988			New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntglobal.com		NOTES: 1. Base Image: ESRI Maps and Data 2017 (DigitalGlobe 2016 0.5m Digital Orthophoto) 2. Map Projection: NAD 1983
				SCALE: AS SHOWN DATE: 10/30/2023 PROJECT #: 237454					

TABLES

Table 1
Summary of Soil Analytical Data - Initial Assessment Samples
Dark Canyon 15-22 State WCB 2H
Earthstone Operating, LLC
Eddy, County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
Delineation Samples														
V-1	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320	
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0	
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160	
V-2	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840	
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384	
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672	
	6/19/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,730	
	6/21/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,440	
V-3	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,880	
	6/19/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,200	
	6/19/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400	
	6/19/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,320	
	6/19/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,200	
V-4	6/21/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,280	
	6/21/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
	6/21/2023	(2-2.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0	
	6/21/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0	
V-5	6/28/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0	
	6/28/2023	(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	
	6/28/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
	6/28/2023	(4-4.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0	
V-6	6/28/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	
	6/28/2023	(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	
	6/28/2023	(3-3.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
V-7	6/28/2023	(0-0.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	704	
	6/28/2023	(1-1.5')	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336	
H-1	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240	
H-2	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	<10.0	11.2	112	
H-3	6/19/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
H-4	6/19/2023	(0-6")	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112	
H-5	6/21/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0	
H-6	6/21/2023	(1-1.5)	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144	

Notes:

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

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

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

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

SP-1 Sample Point Excavated

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Dark Canyon 15-22 State WCB 2H
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 ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Base Confirmation Samples													
CS-1	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	172	172	112	284	1,100
CS-1A	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS-2	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
CS-2A	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-3	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,540
CS-3A	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-4	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912
CS-4A	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-5	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.7	35.7	23.1	58.8	1,090
CS-5A	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-6	9/5/2023	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-7	9/5/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,240
CS-7A	9/25/2023	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-8	9/5/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,360
CS-8A	9/25/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
CS-8B	10/12/2023	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	608
CS-8C	10/18/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-9	9/5/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,080
CS-9A	9/25/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
CS-10	9/5/2023	4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,000
CS-10A	9/25/2023	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
CS-11	9/5/2023	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,240
CS-11A	9/25/2023	2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,570
CS-12	9/25/2023	3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS-13 (Ramp)	9/25/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-14	10/12/2023	4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
CS-14A	10/18/2023	5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
Sidewall Confirmation Samples													
SW-1	9/5/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.9	22.9	10.4	33.3	2,360
SW-1A	9/25/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-2	9/5/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW-2A	9/25/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-3	9/5/2023	1-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SW-4	9/5/2023	0-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,250
SW-4A	9/25/2023	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.4	11.4	<10.0	11.4	288
SW-5	9/5/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,710

Table 2
Summary of Soil Analytical Data - Confirmation Assessment Samples
Dark Canyon 15-22 State WCB 2H
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 ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
SW-5A	9/25/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW-6	9/5/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW-6A	10/2/2023	0-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
SW-7	9/5/2023	2-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,640
SW-7A	9/25/2023	2.5-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,600
SW-8	9/5/2023	2-4'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,920
SW-8A	9/25/2023	2.5-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-8B	10/12/2023	2.5-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,600
SW-8C	10/18/2023	2.5'-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	24,000
SW-9	9/5/2023	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW-9A	10/12/2023	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-9B	10/18/2023	0-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-10	9/5/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SW-10A	9/25/2023	0-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW-11	9/25/2023	1-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-12	9/25/2023	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-13	9/25/2023	1-3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-14	9/25/2023	1-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-15	10/2/2023	0-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW-15A	10/18/2023	0-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-16	10/18/2023	4.5'-5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
Deferral Samples													
DV-1	10/12/2023	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
DV-1	10/12/2023	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
DH-1	10/12/2023	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
DH-2	10/12/2023	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
DH-3	10/12/2023	0-6'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

Notes:

1. Values reported in mg/kg

2. < = Value Less Than Reporting Limit (RL)

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

SP-1 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

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

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

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

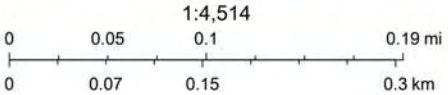
APPENDIX A: SITE CHARACTERIZATION DOCUMENTATION

Earthstone - Karst Potential Map



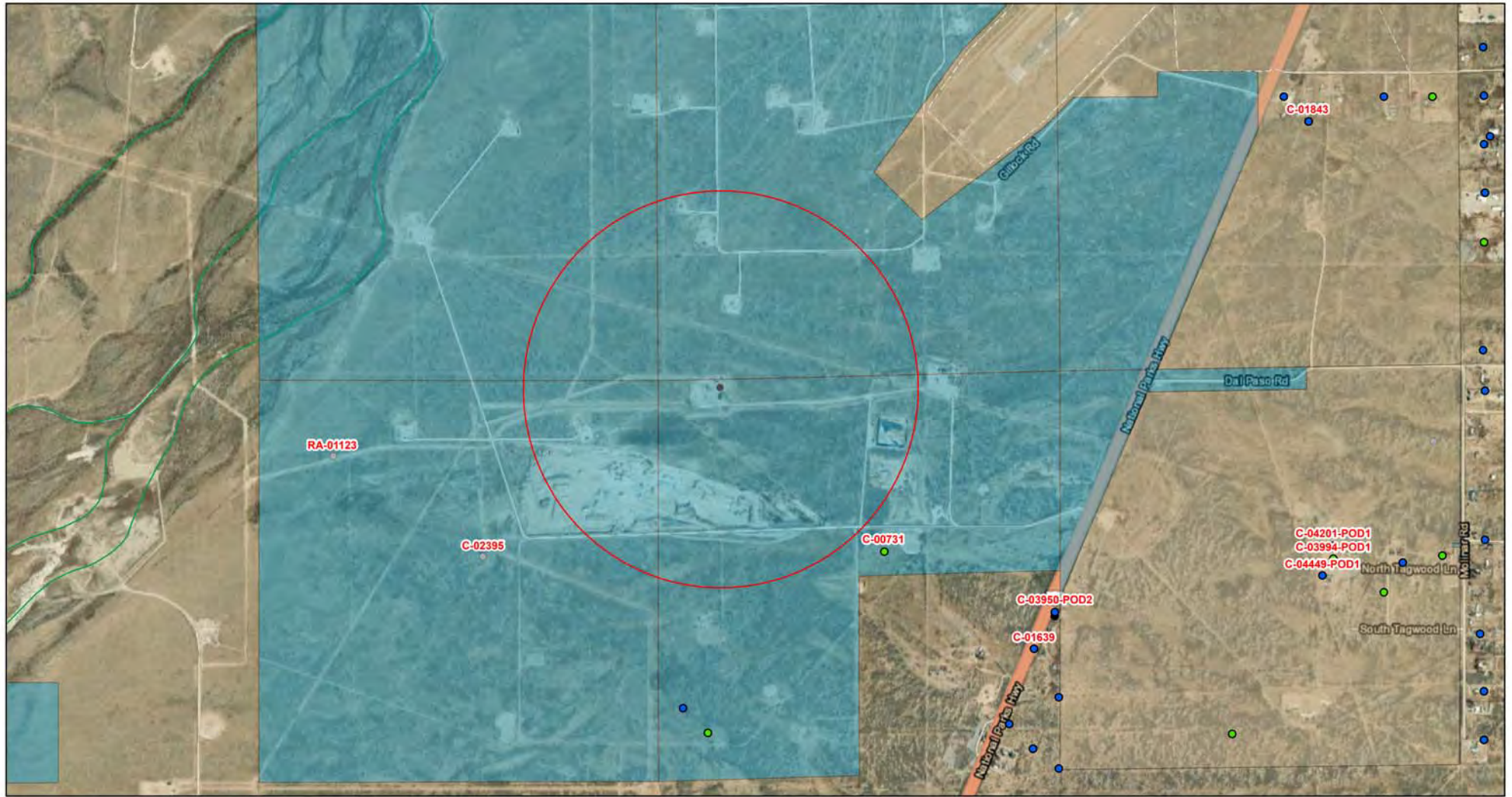
8/8/2023, 11:12:04 AM

- Wells - Large Scale
- Oil, Cancelled
 - Oil, New
 - Gas, Active
 - Gas, New
 - Oil, Active
 - Karst Occurrence Potential
 - Medium
 - PLSS Second Division
 - PLSS First Division



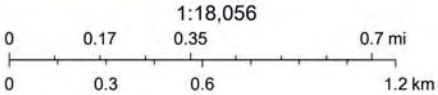
BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., OCD, Esri, HERE, Garmin, iPC, Maxar, BLM

OSE POD Locations Map



8/8/2023, 10:40:08 AM

- GIS WATERS PODs
- Inactive
 - Active
 - Pending
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
 - Both Estates
- NHD Flowlines
- Stream River
 - SiteBoundaries



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

Web Generated Map
Map is generated by web users.

Earthstone Operating, LLC

Nearest Water Wells

Legend

- 0.52 Miles South-southwest
- 1.02 Miles South-southeast
- 1.03 Miles South-southeast
- 1/2 Miles Radius
- NMSEO Water Well
- Site Location
- USGS Water Well

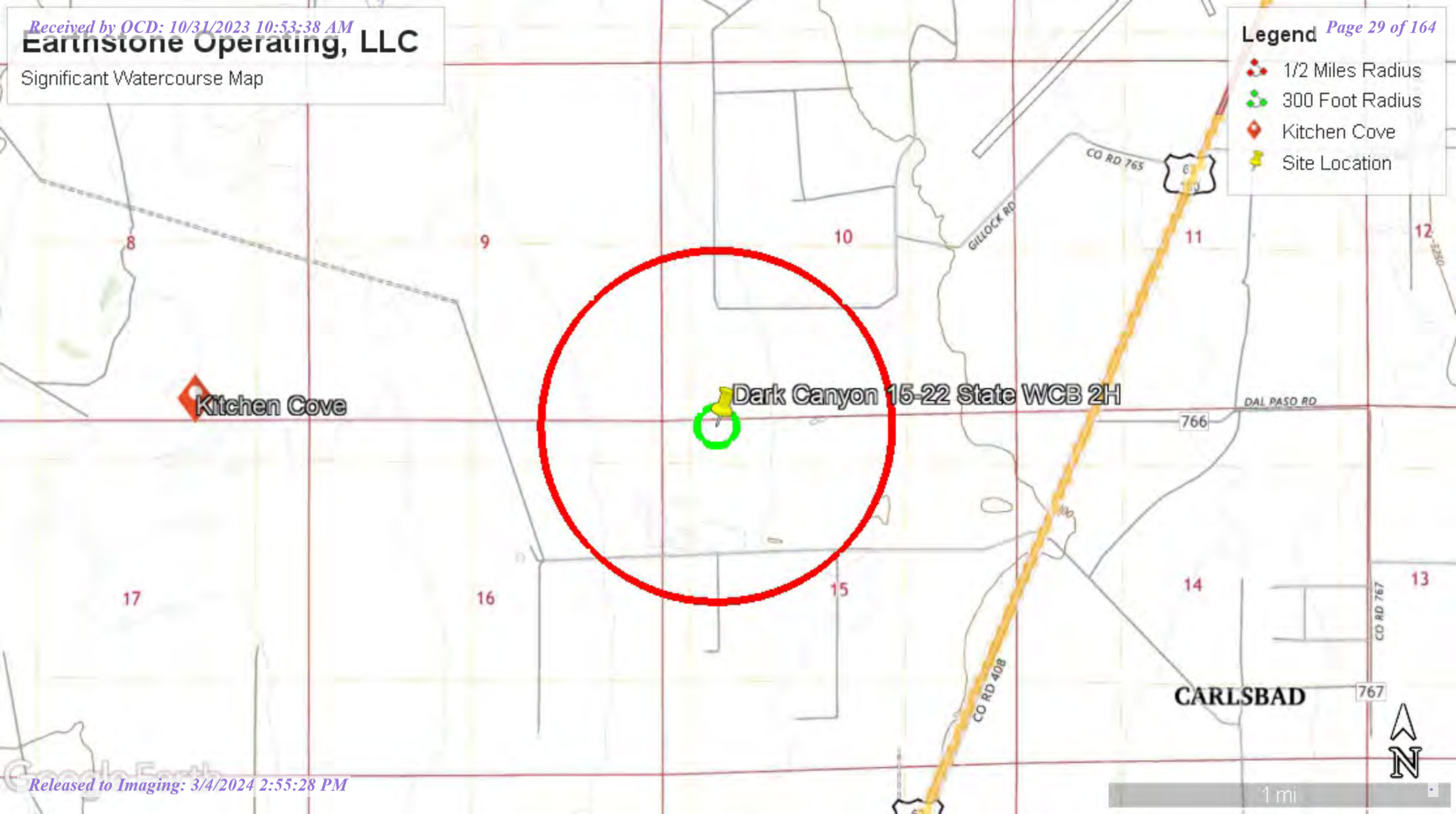


Earthstone Operating, LLC

Significant Watercourse Map

Legend *Page 29 of 164*

-  1/2 Miles Radius
-  300 Foot Radius
-  Kitchen Cove
-  Site Location





August 8, 2023

Wetlands

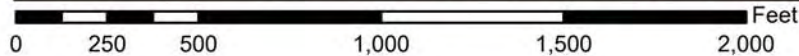
- | | | | | | |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland |  | Lake |
|  | Estuarine and Marine Wetland |  | Freshwater Forested/Shrub Wetland |  | Other |
|  | |  | Freshwater Pond |  | 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°17'32"W 32°18'56"N



1:6,000

104°16'54"W 32°18'26"N

Basemap Imagery Source: USGS National Map 2023

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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
		Digital Data Available
MAP PANELS		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.

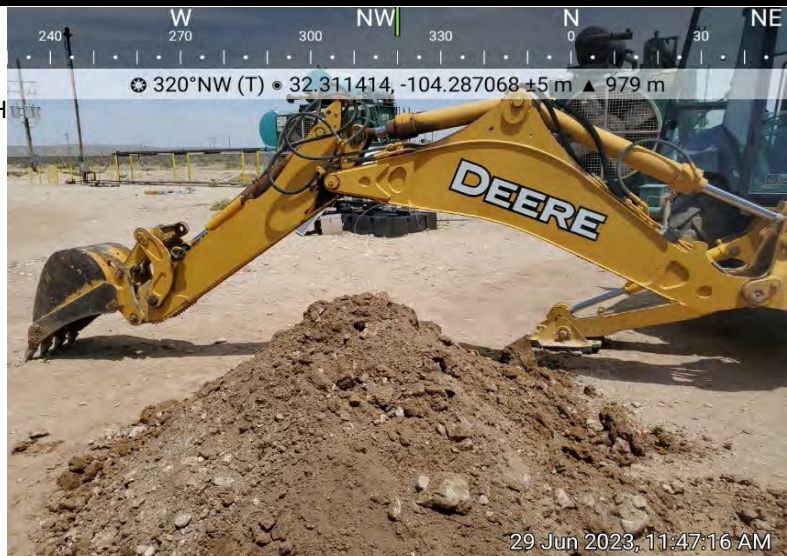
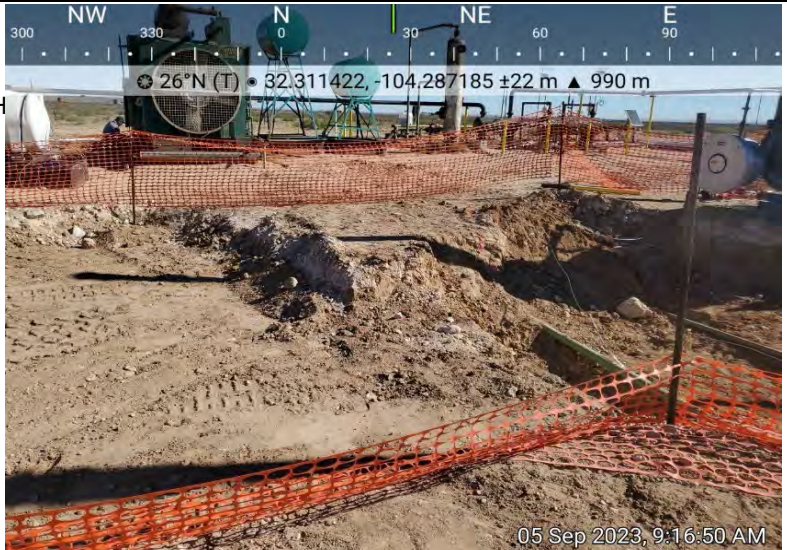
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/8/2023 at 12:15 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

APPENDIX B: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG**Earthstone Operating, LLC****Photograph No. 1****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Impacted Area**Photograph No. 2****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Impacted Area**Photograph No. 3****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Impacted Area

PHOTOGRAPHIC LOG**Earthstone Operating, LLC****Photograph No. 4****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Initial Assessment Activities**Photograph No. 5****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Remedial Action Activities**Photograph No. 6****Facility:** Dark Canyon 15-22 State WCB 2H**County:** Eddy County, New Mexico**Description:**
Remedial Action Activities

APPENDIX C: CONFIRMATION SAMPLING NOTIFICATIONS

Grant Gardner

From: Becky Haskell
Sent: Wednesday, July 12, 2023 5:10 PM
To: ocd.enviro@emnrd.nm.gov
Cc: Becky Haskell; Grant Gardner; Ricardo Baer; NTG Env Carlsbad
Subject: Sampling Notification Dark Canyon 15-22 State WCB 2H (nAPP2315638319)

Good Morning,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Lea County, NM
nAPP2315638319

Sampling will begin at 9:00 a.m. on Monday, July 17, 2023, and continue through Friday, July 21, 2023. Please let me know if you have any questions.

Thank You,

Becky Haskell

Senior Project Manager | **NTG Environmental**

M: 432-766-1918 | bhaskell@ntglobal.com

[701 Tradewinds Blvd, Suite C](#)

[Midland, TX 79706](#)



Grant Gardner

From: Becky Haskell
Sent: Thursday, July 13, 2023 3:01 PM
To: Grant Gardner
Subject: FW: [EXTERNAL] Sampling Notification Dark Canyon 15-22 State WCB 2H (nAPP2315638319)

Thank You,

Becky Haskell

Senior Project Manager | **NTG Environmental**

M: 432-766-1918 | bhaskell@ntglobal.com

[701 Tradewinds Blvd, Suite C](#)

[Midland, TX 79706](#)



From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, July 13, 2023 9:13 AM
To: Becky Haskell <bhaskell@ntglobal.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Sampling Notification Dark Canyon 15-22 State WCB 2H (nAPP2315638319)

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Becky,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

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: Becky Haskell <bhaskell@ntglobal.com>
Sent: Wednesday, July 12, 2023 4:10 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Becky Haskell <bhaskell@ntglobal.com>; Grant Gardner <GGardner@ntglobal.com>; Ricardo Baer <RBaer@ntglobal.com>; NTG Env Carlsbad <ntg_env_carlsbad@ntglobal.com>
Subject: [EXTERNAL] Sampling Notification Dark Canyon 15-22 State WCB 2H (nAPP2315638319)

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

Good Morning,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Lea County, NM
nAPP2315638319

Sampling will begin at 9:00 a.m. on Monday, July 17, 2023, and continue through Friday, July 21, 2023. Please let me know if you have any questions.

Thank You,

Becky Haskell

Senior Project Manager | **NTG Environmental**

M: 432-766-1918 | bhaskell@ntglobal.com

[701 Tradewinds Blvd, Suite C](#)

[Midland, TX 79706](#)



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From: [Wells, Shelly, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, August 2, 2023 2:11:49 PM
Attachments: [image001.png](#)
[image002.png](#)

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Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Administrative Permitting Program
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, August 2, 2023 12:20 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM

nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, Aug 7, 2023, and continue through Friday, August 11, 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: [Wells, Shelly, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, August 16, 2023 5:48:46 PM
Attachments: [image001.png](#)
[image002.png](#)

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Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, August 16, 2023 4:18 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, Aug 21, 2023, and continue through Friday, August 25, 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: [Wells, Shelly, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] FW: Dark Canyon 15-22 State WCB 2H
Date: Wednesday, August 23, 2023 5:38:32 PM
Attachments: [image001.png](#)
[image002.png](#)

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Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

[Shelly Wells](#) * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, August 23, 2023 3:05 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] FW: Dark Canyon 15-22 State WCB 2H

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Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, Aug 28, 2023, and continue through Friday, September 1, 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: [Wells, Shelly, EMNRD](#)
To: [Ricardo Baer](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, August 30, 2023 3:51:55 PM
Attachments: [image001.png](#)
[image002.png](#)

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Good afternoon Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, August 30, 2023 2:17 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Tuesday, September 5, 2023, and continue through Friday, September 8, 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](#); [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, September 6, 2023 4:11:23 PM
Attachments: [image001.png](#)
[image002.png](#)

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Hi Ricardo,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, September 6, 2023 2:17 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

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

Thank you,

Ricardo Baer, CSHO²
Project Scientist

(432) 556-2006

Rbaer@ntglobal.com



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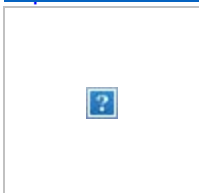
From: [Rodgers, Scott, EMNRD](#)
To: [Ricardo Baer; Enviro, OCD, EMNRD](#)
Cc: [Becky Haskell; NTG Env Carlsbad; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, September 13, 2023 3:11:13 PM
Attachments: [image004.png](#)
[image005.png](#)

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Thank you,
Scott

Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, September 13, 2023 1:22 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM

nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, September 18, 2023, and continue through Friday, September 22, 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: [Rodgers, Scott, EMNRD](#)
To: [Ricardo Baer](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [Becky Haskell](#); [NTG Env Carlsbad](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, September 20, 2023 3:25:15 PM
Attachments: [image002.png](#)
[image003.png](#)

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Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, September 20, 2023 2:22 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] Dark Canyon 15-22 State WCB 2H

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Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, September 25, 2023, and continue through Friday, September 29, 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: [Rodgers, Scott, EMNRD](#)
To: [Ricardo Baer](#); [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Cc: [NTG Env Carlsbad](#); [Becky Haskell](#)
Subject: RE: [EXTERNAL] Dark Canyon 15-22 State WCB 2H
Date: Wednesday, September 27, 2023 3:24:12 PM
Attachments: [image002.png](#)
[image003.png](#)

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Scott Rodgers • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Ricardo Baer <RBaer@ntglobal.com>
Sent: Wednesday, September 27, 2023 2:08 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] Dark Canyon 15-22 State WCB 2H

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

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, October 2, 2023, and continue through Friday, October 6, 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: [Ricardo Baer](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Becky Haskell](#); [NTG Env Carlsbad](#)
Subject: Dark Canyon 15-22 State WCB 2H
Date: Wednesday, October 18, 2023 2:49:00 PM
Attachments: [image001.png](#)
[image002.png](#)

Good Afternoon,

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

Dark Canyon 15-22 State WCB 2H
D-15-23S-26E
Eddy, NM
nAPP2315638319

Sampling will begin at 8:00 a.m. on Monday, October 23, 2023, and continue through Friday, October 27, 2023. Please let me know if you have any questions.

Thank you,

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



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



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

June 26, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE WCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/21/23 14:50.

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 style with a large, stylized 'C' and 'K'.

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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (0-6") (H233216-01)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (1-1.5') (H233216-02)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	80.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 96.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 1 (2-2.5') (H233216-03)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (0-6") (H233216-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	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	1840	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 70.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.2 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (1-1.5') (H233216-05)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	384	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (2-2.5') (H233216-06)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	672	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (3-3.5') (H233216-07)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	5730	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 2 (4-4.5') (H233216-08)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (0-6") (H233216-09)

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	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	3880	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 78.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (1-1.5') (H233216-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	5200	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 77.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (2-2.5') (H233216-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEx	<0.300	0.300	06/23/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2400	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 3 (3-3.5') (H233216-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.22	111	2.00	2.00		
Toluene*	<0.050	0.050	06/23/2023	ND	2.15	108	2.00	2.78		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.18	109	2.00	2.36		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.41	107	6.00	2.82		
Total BTEX	<0.300	0.300	06/23/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 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: 06/21/2023
Reported: 06/26/2023
Project Name: DARK CANYON 15-22 STATE WCB 2H
Project Number: 237454
Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

Sampling Date: 06/19/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V - 3 (4-4.5') (H233216-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/21/2023	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	7200	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 77.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (0-6") (H233216-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30	
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16	
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44	
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21	
Total BTEX	<0.300	0.300	06/21/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (1-1.5') (H233216-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/21/2023	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	144	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 4 (2-2.5') (H233216-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/21/2023	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	96.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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: 06/21/2023
 Reported: 06/26/2023
 Project Name: DARK CANYON 15-22 STATE WCB 2H
 Project Number: 237454
 Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

Sampling Date: 06/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 (3-3.5') (H233216-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/21/2023	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	48.0	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 1 (1-1.5') (H233216-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/21/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/21/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/21/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/21/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/21/2023	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	240	16.0	06/22/2023	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	06/22/2023	ND	188	93.9	200	8.50	
DRO >C10-C28*	<10.0	10.0	06/22/2023	ND	188	94.0	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 2 (1-1.5') (H233216-19)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/22/2023	ND	2.15	108	2.00	2.30		
Toluene*	<0.050	0.050	06/22/2023	ND	2.11	106	2.00	2.16		
Ethylbenzene*	<0.050	0.050	06/22/2023	ND	2.10	105	2.00	2.44		
Total Xylenes*	<0.150	0.150	06/22/2023	ND	6.40	107	6.00	3.21		
Total BTEx	<0.300	0.300	06/22/2023	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	112	16.0	06/22/2023	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	06/22/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	11.2	10.0	06/22/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/22/2023	ND					

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 3 (1-1.5') (H233216-20)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24		
Total BTEx	<0.300	0.300	06/23/2023	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	128	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 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:	06/21/2023	Sampling Date:	06/19/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 4 (0-6") (H233216-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24		
Total BTEx	<0.300	0.300	06/23/2023	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	112	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 5 (1-1.5') (H233216-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24		
Total BTEx	<0.300	0.300	06/23/2023	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	64.0	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.2 % 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:	06/21/2023	Sampling Date:	06/21/2023
Reported:	06/26/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: H - 6 (1-1.5') (H233216-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2023	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	06/23/2023	ND	2.11	106	2.00	2.50		
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.06	103	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.21	103	6.00	2.24		
Total BTEx	<0.300	0.300	06/23/2023	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	144	16.0	06/22/2023	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	06/23/2023	ND	176	88.2	200	1.01	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	167	83.7	200	0.836	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 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 "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Page 1 of 3

Page 26 of 28

Work Order No: 4233214

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments			
Program: UST/PS	PR	Brownie	Supel
State of Project:			
Reporting Level	<input type="checkbox"/> Level	<input type="checkbox"/> PST/UT	TR
Deliverables:	EDD	ADAPT	Other:

Project Name:	Dark Canyon 15-22 State WCB 2H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes				
Project Number:	237454	Due Date:																None: NO	DI Water: H ₂ O			
Project Location:	Eddy Co. New Mexico																	Cool: Cool	MeOH: Me			
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm																HCL: HC	HNO ₃ : HN			
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT	Temp Blank:	Yes	No	Yes	No	Wet Ice:	Yes	No													H ₃ PO ₄ : HP	
Received In tact:		Yes	No	Thermometer ID:																	NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes	No	Correction Factor:																	Na ₂ S ₂ O ₅ : NaSO ₃	
Sample Custody Seals:		Yes	No	Temperature Reading:																	Zn Acetate+NaOH: Zn	
Total Containers:	23			Corrected Temperature:																	NaOH+Ascorbic Acid: SAPC	
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments			
V-1 (0-6")	6/19/2023	10:00	X		Grab/	1	X	X	X													
V-1 (1-1.5")	6/19/2023	10:05	X		Grab/	1	X	X	X													
V-1 (2-2.5")	6/19/2023	10:15	X		Grab/	1	X	X	X													
V-2 (0-6")	6/19/2023	10:20	X		Grab/	1	X	X	X													
V-2 (1-1.5")	6/19/2023	10:25	X		Grab/	1	X	X	X													
V-2 (2-2.5")	6/19/2023	10:30	X		Grab/	1	X	X	X													
V-2 (3-3.5")	6/19/2023	10:35	X		Grab/	1	X	X	X													
V-2 (4-4.5")	6/21/2023	10:00	X		Grab/	1	X	X	X													
V-3 (0-6")	6/19/2023	10:40	X		Grab/	1	X	X	X													
V-3 (1-1.5")	6/19/2023	10:45	X		Grab/	1	X	X	X													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han	<i>[Signature]</i>	6-21-23 1450			
3					
5					



Chain of Custody

Page 2 of 3

Work Order No: H233216

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments			
Program:	UST/PS	PR	Brownie
State of Project:			
Reporting Level:		Level	PST/UT
Deliverables:	EDD	ADAPT	Other:

Project Name:	Dark Canyon 15-22 State WCB 2H	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		
Project Number:	237454	Due Date:				
Project Location:	Eddy Co, New Mexico	TAT starts the day received by the lab, if received by 4:30pm				
Sampler's Name:	Kenny Han					
PO #:						
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Received Intact:	Yes	No		Thermometer ID:	113	
Cooler Custody Seals:	Yes	No		Correction Factor:	-0.06	
Sample Custody Seals:	Yes	No		Temperature Reading:	4.5	
Total Containers:	23	Corrected Temperature:	3.9			

Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
V-3 (2-2.5')	6/19/2023	10:50	X		Grab/	1	X	X	X
V-3 (3-3.5')	6/19/2023	10:55	X		Grab/	1	X	X	X
V-3 (4-4.5')	6/19/2023	11:00	X		Grab/	1	X	X	X
V-4 (0-6")	6/21/2023	10:30	X		Grab/	1	X	X	X
V-4 (1-1.5')	6/21/2023	10:35	X		Grab/	1	X	X	X
V-4 (2-2.5')	6/21/2023	10:40	X		Grab/	1	X	X	X
V-4 (3-3.5')	6/21/2023	10:45	X		Grab/	1	X	X	X
H-1 (1-1.5')	6/19/2023	11:05	X		Grab/	1	X	X	X
H-2 (1-1.5')	6/19/2023	11:10	X		Grab/	1	X	X	X
H-3 (1-1.5')	6/19/2023	11:15	X		Grab/	1	X	X	X

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6-21-23 1450			



Chain of Custody

Work Order No.:

14233216

Page 3 of 3

Page 28 of 28



Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments			
Program:	UST/PS <input type="checkbox"/>	PR <input type="checkbox"/>	Brownfield <input type="checkbox"/>
State of Project:		RT <input type="checkbox"/>	Super <input type="checkbox"/>
Reporting Level:	<input type="checkbox"/> Level <input type="checkbox"/>	PST/U <input type="checkbox"/>	TR <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAP <input type="checkbox"/>	Other: <input type="checkbox"/>

[illegible][illegible]

Additional Comments:

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	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han			6-21-23 1450			
3						
5						

of Xenco. A minimum charge of \$85.00 will be applied to each project with a charge of \$25.00 per hour for each hour of Xenco. A minimum charge of \$85.00 will be applied to each project with a charge of \$25.00 per hour for each hour of Xenco.

Revised Date 09/01/2020 Rev. 2020



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

July 03, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE WCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 14:15.

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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (1-1.5') (H233343-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33	
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36	
Total BTEX	<0.300	0.300	06/29/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/29/2023	ND	352	88.0	400	12.8		

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	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (2-2.5') (H233343-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33		
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36		
Total BTEx	<0.300	0.300	06/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (3-3.5') (H233343-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33		
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36		
Total BTEx	<0.300	0.300	06/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 137 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 5 (4-4.5') (H233343-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	1.91	95.3	2.00	6.33		
Toluene*	<0.050	0.050	06/29/2023	ND	2.01	100	2.00	6.35		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.05	102	2.00	5.94		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.21	103	6.00	6.36		
Total BTEx	<0.300	0.300	06/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 147 % 48.2-134

Surrogate: 1-Chlorooctadecane 153 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (1-1.5') (H233343-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	144	16.0	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/28/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/28/2023	ND					

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (2-2.5') (H233343-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 139 % 48.2-134

Surrogate: 1-Chlorooctadecane 146 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 6 (3-3.5') (H233343-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93		
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06		
Total BTX	<0.300	0.300	06/29/2023	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	32.0	16.0	06/29/2023	ND	352	88.0	400	12.8		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 136 % 48.2-134

Surrogate: 1-Chlorooctadecane 142 % 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: 06/28/2023
Reported: 07/03/2023
Project Name: DARK CANYON 15-22 STATE WCB 2H
Project Number: 237454
Project Location: EARTHSTONE - EDDY CO, NEW MEXICO

Sampling Date: 06/28/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: V - 7 (0-0.5') (H233343-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTX	<0.300	0.300	06/29/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	704	16.0	06/29/2023	ND	352	88.0	400	12.8		

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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:	06/28/2023	Sampling Date:	06/28/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE WCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE - EDDY CO, NEW MEXICO		

Sample ID: V - 7 (1-1.5') (H233343-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93		
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52		
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67		
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06		
Total BTX	<0.300	0.300	06/29/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	336	16.0	06/29/2023	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	06/29/2023	ND	200	99.9	200	0.670	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	197	98.5	200	7.16	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H233343Page 1 of 1

Page 12 of 12

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments	
Program: UST/PS <input type="checkbox"/> PR <input type="checkbox"/> Brownfie <input type="checkbox"/> R <input type="checkbox"/> Super <input type="checkbox"/>	
State of Project:	
Reporting: Level <input type="checkbox"/> Level <input type="checkbox"/> PST/U <input type="checkbox"/> TR <input type="checkbox"/> Ld <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAP <input type="checkbox"/> Other:	

Project Name:		Turn Around		ANALYSIS REQUEST												Preservative Codes		
Project Number:	237454	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code													None: NO	DI Water: H ₂ O
Project Location:	Eddy Co, New Mexico	Due Date:		Parameters	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD									Cool: Cool	MeOH: Me
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														H ₃ PO ₄ : HP	
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	113														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:	-0.6°C	Na ₂ S ₂ O ₃ : NaSO ₃														
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Temperature Reading:	3.8°C	Zn Acetate+NaOH: Zn														
Total Containers:	9	Corrected Temperature:	3.2°C	NaOH+Ascorbic Acid: SAPC														
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont											Sample Comments	
V-5 (1-1.5')	6/28/2023	10:00	X		Grab/	1	X	X	X									
V-5 (2-2.5')	6/28/2023	10:05	X		Grab/	1	X	X	X									
V-5 (3-3.5')	6/28/2023	10:15	X		Grab/	1	X	X	X									
V-5 (4-4.5')	6/28/2023	10:20	X		Grab/	1	X	X	X									
V-6 (1-1.5')	6/28/2023	10:40	X		Grab/	1	X	X	X									
V-6 (2-2.5')	6/28/2023	10:45	X		Grab/	1	X	X	X									
V-6 (3-3.5')	6/28/2023	10:50	X		Grab/	1	X	X	X									
V-7 (0-0.5')	6/28/2023	11:40	X		Grab/	1	X	X	X									
V-7 (1-1.5')	6/28/2023	11:50	X		Grab/	1	X	X	X									

Additional Comments:

6/28/23

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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han	<i>[Signature]</i>	6-28-23 1415			
3					
5					

Revised Date 05/12/2020 Rev: 2020.1



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

October 23, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE WCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/25/23 14:56.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1A (3')	H235208-01	Soil	25-Sep-23 09:00	25-Sep-23 14:56
CS - 2A (3')	H235208-02	Soil	25-Sep-23 09:03	25-Sep-23 14:56
CS - 3A (3')	H235208-03	Soil	25-Sep-23 09:06	25-Sep-23 14:56
CS - 4A (3')	H235208-04	Soil	25-Sep-23 09:09	25-Sep-23 14:56
CS - 5A (3')	H235208-05	Soil	25-Sep-23 09:12	25-Sep-23 14:56
CS - 7A (4.5')	H235208-06	Soil	25-Sep-23 09:15	25-Sep-23 14:56
CS - 8A (2.5')	H235208-07	Soil	25-Sep-23 09:18	25-Sep-23 14:56
CS - 9A (2.5')	H235208-08	Soil	25-Sep-23 09:21	25-Sep-23 14:56
CS - 10A (4.5')	H235208-09	Soil	25-Sep-23 09:24	25-Sep-23 14:56
CS - 11A (2.5')	H235208-10	Soil	25-Sep-23 09:27	25-Sep-23 14:56
CS - 12 (3')	H235208-11	Soil	25-Sep-23 09:30	25-Sep-23 14:56
CS - 13 (RAMP) (0-1')	H235208-12	Soil	25-Sep-23 09:33	25-Sep-23 14:56
SW - 1A (0-3')	H235208-13	Soil	25-Sep-23 09:36	25-Sep-23 14:56
SW - 2A (0-3')	H235208-14	Soil	25-Sep-23 09:39	25-Sep-23 14:56
SW - 4A (0-4.5')	H235208-15	Soil	25-Sep-23 09:42	25-Sep-23 14:56
SW - 5A (0-2.5')	H235208-16	Soil	22-Sep-23 11:30	25-Sep-23 14:56
SW - 7A (2.5-4.5')	H235208-17	Soil	22-Sep-23 11:33	25-Sep-23 14:56
SW - 8A (2.5-4.5')	H235208-18	Soil	25-Sep-23 09:45	25-Sep-23 14:56
SW - 10A (0-3')	H235208-19	Soil	25-Sep-23 09:48	25-Sep-23 14:56
SW - 11 (1-3')	H235208-20	Soil	25-Sep-23 09:51	25-Sep-23 14:56
SW - 12 (0-1')	H235208-21	Soil	25-Sep-23 09:54	25-Sep-23 14:56
SW - 13 (1-3')	H235208-22	Soil	25-Sep-23 09:57	25-Sep-23 14:56
SW - 14 (1-4.5')	H235208-23	Soil	25-Sep-23 10:00	25-Sep-23 14:56

10/23/23 - Client changed the sample ID on -12 (see COC). This is the revised report and will replace the one sent on 09/28/23.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 1A (3')
H235208-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 3092614 MS 26-Sep-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane 96.1 % 48.2-134 3092603 MS 26-Sep-23 8015B

Surrogate: 1-Chlorooctadecane 118 % 49.1-148 3092603 MS 26-Sep-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 2A (3')
H235208-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092614	MS	26-Sep-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctane			77.2 %	48.2-134		3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctadecane			90.0 %	49.1-148		3092603	MS	26-Sep-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 3A (3')
H235208-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			91.5 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 4A (3')
H235208-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092614	MS	26-Sep-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctane			99.5 %	48.2-134		3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1-148		3092603	MS	26-Sep-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 5A (3')
H235208-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3092614	MS	26-Sep-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctane			98.4 %	48.2-134		3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctadecane			113 %	49.1-148		3092603	MS	26-Sep-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 7A (4.5')**H235208-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			96.5 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			110 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 8A (2.5')**H235208-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6800		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			87.2 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			98.0 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 9A (2.5')**H235208-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	464		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			105 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			121 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 10A (4.5')**H235208-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			104 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			120 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 11A (2.5')**H235208-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1570		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			82.2 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			93.8 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 12 (3')
H235208-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			116 %	71.5-134		3092614	MS	26-Sep-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctane			89.5 %	48.2-134		3092603	MS	26-Sep-23	8015B	
Surrogate: 1-Chlorooctadecane			106 %	49.1-148		3092603	MS	26-Sep-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

CS - 13 (RAMP) (0-1')**H235208-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %		71.5-134	3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			76.7 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.2 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 1A (0-3')**H235208-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	3092623	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		3092614	MS	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			99.6 %	48.2-134		3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			112 %	49.1-148		3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 2A (0-3')**H235208-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092614	MS	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092614	MS	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134 3092614 MS 26-Sep-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane 92.9 % 48.2-134 3092603 MS 26-Sep-23 8015B

Surrogate: 1-Chlorooctadecane 105 % 49.1-148 3092603 MS 26-Sep-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 4A (0-4.5')**H235208-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	11.4		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			82.3 %	48.2-134		3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			91.5 %	49.1-148		3092603	MS	26-Sep-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 5A (0-2.5')**H235208-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	288		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			96.1 %		48.2-134	3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		49.1-148	3092603	MS	26-Sep-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 7A (2.5-4.5')**H235208-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7600		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 3092615 JH/ 26-Sep-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane 104 % 48.2-134 3092603 MS 26-Sep-23 8015B

Surrogate: 1-Chlorooctadecane 122 % 49.1-148 3092603 MS 26-Sep-23 8015B

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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 8A (2.5-4.5')**H235208-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			115 %	48.2-134		3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			133 %	49.1-148		3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 10A (0-3')**H235208-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			122 %	48.2-134		3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			142 %	49.1-148		3092603	MS	26-Sep-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 11 (1-3')**H235208-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092603	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			113 %	48.2-134		3092603	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			130 %	49.1-148		3092603	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 12 (0-1')**H235208-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			94.3 %	48.2-134		3092604	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		3092604	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 13 (1-3')**H235208-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	144		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			91.8 %	48.2-134		3092604	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	49.1-148		3092604	MS	26-Sep-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

SW - 14 (1-4.5')**H235208-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	3092626	AC	26-Sep-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3092615	JH/	26-Sep-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3092615	JH/	26-Sep-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	71.5-134		3092615	JH/	26-Sep-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3092604	MS	26-Sep-23	8015B	

Surrogate: 1-Chlorooctane			94.1 %	48.2-134		3092604	MS	26-Sep-23	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	49.1-148		3092604	MS	26-Sep-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 3092623 - 1:4 DI Water**Blank (3092623-BLK1)**

Prepared & Analyzed: 26-Sep-23

Chloride	ND	16.0	mg/kg						
----------	----	------	-------	--	--	--	--	--	--

LCS (3092623-BS1)

Prepared & Analyzed: 26-Sep-23

Chloride	432	16.0	mg/kg	400	108	80-120			
----------	-----	------	-------	-----	-----	--------	--	--	--

LCS Dup (3092623-BSD1)

Prepared & Analyzed: 26-Sep-23

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
----------	-----	------	-------	-----	-----	--------	------	----	--

Batch 3092626 - 1:4 DI Water**Blank (3092626-BLK1)**

Prepared & Analyzed: 26-Sep-23

Chloride	ND	16.0	mg/kg						
----------	----	------	-------	--	--	--	--	--	--

LCS (3092626-BS1)

Prepared & Analyzed: 26-Sep-23

Chloride	432	16.0	mg/kg	400	108	80-120			
----------	-----	------	-------	-----	-----	--------	--	--	--

LCS Dup (3092626-BSD1)

Prepared & Analyzed: 26-Sep-23

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
----------	-----	------	-------	-----	-----	--------	------	----	--

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3092614 - Volatiles**Blank (3092614-BLK1)**

Prepared & Analyzed: 26-Sep-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0557		mg/kg	0.0500		111	71.5-134			

LCS (3092614-BS1)

Prepared & Analyzed: 26-Sep-23

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	85.9-128			
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89-129			
o-Xylene	1.98	0.050	mg/kg	2.00		99.2	86.1-125			
Total Xylenes	6.03	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0517		mg/kg	0.0500		103	71.5-134			

LCS Dup (3092614-BSD1)

Prepared & Analyzed: 26-Sep-23

Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	0.976	15.8	
Toluene	2.13	0.050	mg/kg	2.00		107	86-128	1.27	15.9	
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	85.9-128	2.35	16	
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.4	89-129	3.70	16.2	
o-Xylene	1.97	0.050	mg/kg	2.00		98.6	86.1-125	0.627	16.7	
Total Xylenes	5.87	0.150	mg/kg	6.00		97.8	88.2-128	2.68	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			

Batch 3092615 - Volatiles**Blank (3092615-BLK1)**

Prepared & Analyzed: 26-Sep-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3092615 - Volatiles**Blank (3092615-BLK1)**

Prepared & Analyzed: 26-Sep-23

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0563		mg/kg	0.0500		113	71.5-134			

LCS (3092615-BS1)

Prepared & Analyzed: 26-Sep-23

Benzene	1.75	0.050	mg/kg	2.00		87.5	82.8-130			
Toluene	1.79	0.050	mg/kg	2.00		89.4	86-128			
Ethylbenzene	1.92	0.050	mg/kg	2.00		95.9	85.9-128			
m,p-Xylene	3.85	0.100	mg/kg	4.00		96.3	89-129			
o-Xylene	1.90	0.050	mg/kg	2.00		95.0	86.1-125			
Total Xylenes	5.75	0.150	mg/kg	6.00		95.8	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0525		mg/kg	0.0500		105	71.5-134			

LCS Dup (3092615-BSD1)

Prepared & Analyzed: 26-Sep-23

Benzene	1.73	0.050	mg/kg	2.00		86.6	82.8-130	1.05	15.8	
Toluene	1.73	0.050	mg/kg	2.00		86.4	86-128	3.40	15.9	
Ethylbenzene	1.78	0.050	mg/kg	2.00		89.2	85.9-128	7.20	16	
m,p-Xylene	3.53	0.100	mg/kg	4.00		88.1	89-129	8.79	16.2	BS-3
o-Xylene	1.76	0.050	mg/kg	2.00		88.0	86.1-125	7.65	16.7	
Total Xylenes	5.29	0.150	mg/kg	6.00		88.1	88.2-128	8.41	16.3	BS-3
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3092603 - General Prep - Organics**Blank (3092603-BLK1)**

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.1		mg/kg	50.0		92.3	48.2-134			
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	49.1-148			

LCS (3092603-BS1)

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	188	10.0	mg/kg	200		94.1	66.4-123			
DRO >C10-C28	200	10.0	mg/kg	200		99.9	66.5-118			
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	77.6-123			
Surrogate: 1-Chlorooctane	50.9		mg/kg	50.0		102	48.2-134			
Surrogate: 1-Chlorooctadecane	66.2		mg/kg	50.0		132	49.1-148			

LCS Dup (3092603-BS1)

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	185	10.0	mg/kg	200		92.3	66.4-123	1.89	17.7	
DRO >C10-C28	193	10.0	mg/kg	200		96.5	66.5-118	3.43	21	
Total TPH C6-C28	378	10.0	mg/kg	400		94.4	77.6-123	2.68	18.5	
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	48.2-134			
Surrogate: 1-Chlorooctadecane	67.7		mg/kg	50.0		135	49.1-148			

Batch 3092604 - General Prep - Organics**Blank (3092604-BLK1)**

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.2	48.2-134			
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		95.9	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON 15-22 STATE WCB
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:08

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 3092604 - General Prep - Organics**LCS (3092604-BS1)**

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	198	10.0	mg/kg	200		99.2	66.4-123			
DRO >C10-C28	195	10.0	mg/kg	200		97.7	66.5-118			
Total TPH C6-C28	394	10.0	mg/kg	400		98.5	77.6-123			
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.7	48.2-134			
Surrogate: 1-Chlorooctadecane	55.1		mg/kg	50.0		110	49.1-148			

LCS Dup (3092604-BS1)

Prepared & Analyzed: 26-Sep-23

GRO C6-C10	196	10.0	mg/kg	200		98.2	66.4-123	1.06	17.7	
DRO >C10-C28	193	10.0	mg/kg	200		96.4	66.5-118	1.36	21	
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.6-123	1.21	18.5	
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	48.2-134			
Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	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 "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H235208

Page 2 of 3

Project Manager:	Becky Haskell	Bill to: (if different)	Chris Martin
Company Name:	NTG Environmental	Company Name:	Earthstone
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

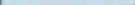
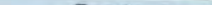
Work Order Comments				
Program:	UST/PS <input type="checkbox"/>	PR <input type="checkbox"/>	Brownfie <input type="checkbox"/>	Re <input type="checkbox"/>
State of Project:				
Reporting:	Level <input type="checkbox"/>	Level <input type="checkbox"/>	PST/U <input type="checkbox"/>	TR <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADaP <input type="checkbox"/>	Other:	

Project Name:		Dark Canyon 15-22 State WCB 2H		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes							
Project Number:		237454		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Due Date:														None: NO DI Water: H ₂ O							
Project Location:		Eddy Co, New Mexico		TAT starts the day received by the lab, if received by 4:30pm																Cool: Cool MeOH: Me							
Sampler's Name:		Kenny Han																		HCL: HC HNO ₃ : HN							
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP					
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		140														NaHSO ₄ : NABIS							
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:		1														Na ₂ S ₂ O ₃ : NaSO ₃							
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:		5.4°														Zn Acetate+NaOH: Zn							
Total Containers:		23		Corrected Temperature:		1														NaOH+Ascorbic Acid: SAPC							
Sample Identification		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
CS-12 (3')		9/25/2023		9:30		X				Comp		1		X X X												11	
CS-13 (1' Ramp) (0-3')		9/25/2023		9:33		X				Comp		1		X X X												12	
SW-1A (0-3')		9/25/2023		9:36		X				Comp		1		X X X												13	
SW-2A (0-3')		9/25/2023		9:39		X				Comp		1		X X X												14	
SW-4A (0-4.5')		9/25/2023		9:42		X				Comp		1		X X X												15	
SW-5A (0-2.5')		9/22/2023		11:30		X				Comp		1		X X X												16	
SW-7A (2.5-4.5')		9/22/2023		11:33		X				Comp		1		X X X												17	
SW-8A (2.5-4.5')		9/25/2023		9:45		X				Comp		1		X X X												18	
SW-10A (0-3')		9/25/2023		9:48		X				Comp		1		X X X												19	
SW-11 (1-3')		9/25/2023		9:51		X				Comp		1		X X X												20	

Additional Comments:

* Customer requested Id changes. 40. 10/19/23

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 of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)						Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1. Kenny Han 								7/25/23/14:56		2					
										4					
										6					



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

October 06, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE SCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/02/23 14:38.

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:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE SCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE- EDDY CO, NEW MEXICO		

Sample ID: SW - 6A 0-2.5' (H235351-01)

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	10/04/2023	ND	2.01	100	2.00	2.18		
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09		
Total BTEX	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	384	16.0	10/04/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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:	10/02/2023	Sampling Date:	10/02/2023
Reported:	10/06/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE SCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE- EDDY CO, NEW MEXICO		

Sample ID: SW - 15 0-4.5' (H235351-02)

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	10/04/2023	ND	2.01	100	2.00	2.18		
Toluene*	<0.050	0.050	10/04/2023	ND	2.00	100	2.00	5.28		
Ethylbenzene*	<0.050	0.050	10/04/2023	ND	2.05	102	2.00	4.64		
Total Xylenes*	<0.150	0.150	10/04/2023	ND	6.23	104	6.00	5.09		
Total BTEX	<0.300	0.300	10/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 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	192	16.0	10/04/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2023	ND	199	99.3	200	0.386	
DRO >C10-C28*	<10.0	10.0	10/03/2023	ND	212	106	200	1.00	
EXT DRO >C28-C36	<10.0	10.0	10/03/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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.
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

Work Order No: 17235251



Page 5 of 5

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Dark Canyon 15-22 State SCB 2H				ANALYSIS REQUEST		Preservative Codes	
Project Number:		237454		<input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		Turn Around		None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₅ : NaSO ₅ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC	
Project Location		Eddy Co, New Mexico		Due Date:		10/1/23			
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		Wet Ice:		Yes <input checked="" type="checkbox"/> No	
Received Intact:		Yes <input checked="" type="checkbox"/> No		Thermometer ID:				140	
Cooler Custody Seals:		Yes No <input checked="" type="checkbox"/> N/A		Correction Factor:					
Sample Custody Seals:		Yes No <input checked="" type="checkbox"/> N/A		Temperature Reading:				1.9°C	
Total Containers:		2		Corrected Temperature:					
Parameters				Pres. Code					
BTEX 8021B									
8015M (GRO + DRO + MRO)									
Chloride 4500									
HOLD									

[illegible]

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		10-2-23 1438			



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

October 13, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE SCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 15:45.

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

Cardinal Laboratories is 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:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/13/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE SCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE- EDDY CO, NM		

Sample ID: DH - 1 0-6" (H235587-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215	
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 69.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.6 % 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: 10/12/2023
 Reported: 10/13/2023
 Project Name: DARK CANYON 15-22 STATE SCB 2H
 Project Number: 237454
 Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH - 2 0-6" (H235587-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215		
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104		
Total BTEx	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	176	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.6 % 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: 10/12/2023
 Reported: 10/13/2023
 Project Name: DARK CANYON 15-22 STATE SCB 2H
 Project Number: 237454
 Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DH - 3 0-6" (H235587-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215		
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104		
Total BTEx	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	96.0	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 70.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 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: 10/12/2023
 Reported: 10/13/2023
 Project Name: DARK CANYON 15-22 STATE SCB 2H
 Project Number: 237454
 Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DV - 1 3-3.5' (H235587-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215		
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104		
Total BTX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	352	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 65.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.2 % 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: 10/12/2023
Reported: 10/13/2023
Project Name: DARK CANYON 15-22 STATE SCB 2H
Project Number: 237454
Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: DV - 1 4-4.5' (H235587-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215		
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696		
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233		
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104		
Total BTEX	<0.300	0.300	10/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	256	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 69.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.7 % 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 "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: NTC-E Project Manager: Becky Huskell Address: 701 Tradewinds Blvd City: Midland State: TX Zip: 79701 Phone #: 432-766-1418 Fax #: Project #: 237454 Project Owner: Earthshare Project Name: Dark Canyon 15-2a Project Location: Fedy Co, NM Sampler Name: Penny Hurn				P.O. #: Company: Earthshare Attn: Chns March Address: City: State: Zip: Phone #: Fax #:			
BILL TO				ANALYSIS REQUEST			
Lab I.D. H235587		Sample I.D. 0-6"		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		MATRIX ACID/BASE: ICE / COOL OTHER:	
1 DH-1 2 DH-2 3 DH-3 4 DV-1 5 DV-1		0-6" 1 1 1 1		10/12/23 1:57 1:58 1:59 2:00 2:01		BTEX TPH Chlone	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.							
Relinquished By: [Signature]		Date: 10/12/23 Time: 1:45		Received By: [Signature]		Date: 10/12/23 Time: 1:45	
Relinquished By: [Signature]		Date: 10/12/23 Time: 1:45		Received By: [Signature]		Date: 10/12/23 Time: 1:45	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.2		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)	
Turnaround Time: Standard Rush		Thermometer ID #140 24hr		Correction Factor 0°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
REMARKS:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:					

FORM 000-000-0711/23

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



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

October 13, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON 15-22 STATE SCB 2H

Enclosed are the results of analyses for samples received by the laboratory on 10/12/23 15:45.

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

Cardinal Laboratories is 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:	10/12/2023	Sampling Date:	10/12/2023
Reported:	10/13/2023	Sampling Type:	Soil
Project Name:	DARK CANYON 15-22 STATE SCB 2H	Sampling Condition:	Cool & Intact
Project Number:	237454	Sample Received By:	Tamara Oldaker
Project Location:	EARTHSTONE- EDDY CO, NM		

Sample ID: CS - 8B 4.5' (H235588-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2023	ND	2.11	105	2.00	0.215	
Toluene*	<0.050	0.050	10/12/2023	ND	2.04	102	2.00	0.696	
Ethylbenzene*	<0.050	0.050	10/12/2023	ND	2.03	102	2.00	0.233	
Total Xylenes*	<0.150	0.150	10/12/2023	ND	5.85	97.5	6.00	0.104	
Total BTEX	<0.300	0.300	10/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	608	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 73.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.0 % 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: 10/12/2023
Reported: 10/13/2023
Project Name: DARK CANYON 15-22 STATE SCB 2H
Project Number: 237454
Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: CS - 14 4.5' (H235588-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2023	ND	1.98	98.8	2.00	0.173		
Toluene*	<0.050	0.050	10/13/2023	ND	2.05	103	2.00	0.724		
Ethylbenzene*	<0.050	0.050	10/13/2023	ND	2.11	106	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/13/2023	ND	6.37	106	6.00	2.01		
Total BTEx	<0.300	0.300	10/13/2023	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	640	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 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: 10/12/2023
Reported: 10/13/2023
Project Name: DARK CANYON 15-22 STATE SCB 2H
Project Number: 237454
Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 8B 2.5-4.5' (H235588-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2023	ND	1.98	98.8	2.00	0.173		
Toluene*	<0.050	0.050	10/13/2023	ND	2.05	103	2.00	0.724		
Ethylbenzene*	<0.050	0.050	10/13/2023	ND	2.11	106	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/13/2023	ND	6.37	106	6.00	2.01		
Total BTEX	<0.300	0.300	10/13/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	9600	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 65.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.1 % 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: 10/12/2023
Reported: 10/13/2023
Project Name: DARK CANYON 15-22 STATE SCB 2H
Project Number: 237454
Project Location: EARTHSTONE- EDDY CO, NM

Sampling Date: 10/12/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 9A 0-4.5' (H235588-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2023	ND	1.98	98.8	2.00	0.173	
Toluene*	<0.050	0.050	10/13/2023	ND	2.05	103	2.00	0.724	
Ethylbenzene*	<0.050	0.050	10/13/2023	ND	2.11	106	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/13/2023	ND	6.37	106	6.00	2.01	
Total BTEX	<0.300	0.300	10/13/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	112	16.0	10/13/2023	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	10/12/2023	ND	179	89.4	200	5.68	
DRO >C10-C28*	<10.0	10.0	10/12/2023	ND	173	86.6	200	5.22	
EXT DRO >C28-C36	<10.0	10.0	10/12/2023	ND					

Surrogate: 1-Chlorooctane 68.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is 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

[illegible]

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

October 23, 2023

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: DARK CANYON

Enclosed are the results of analyses for samples received by the laboratory on 10/18/23 13:15.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 8C (5)	H235699-01	Soil	18-Oct-23 10:00	18-Oct-23 13:15
CS - 14A (5)	H235699-02	Soil	18-Oct-23 10:00	18-Oct-23 13:15
SW - 8C (2.5-5)	H235699-03	Soil	18-Oct-23 10:00	18-Oct-23 13:15
SW - 9B (0-5)	H235699-04	Soil	18-Oct-23 10:00	18-Oct-23 13:15
SW - 15A (0-5)	H235699-05	Soil	18-Oct-23 10:00	18-Oct-23 13:15
SW - 16 (4.5-5)	H235699-06	Soil	18-Oct-23 10:00	18-Oct-23 13:15

10/23/23 - Client changed the sample ID on -03 (see COC). This is the revised report and will replace the one sent on 10/19/23.

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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

CS - 8C (5)
H235699-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	352		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	94.8 %	71.5-134	3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	

Surrogate: 1-Chlorooctane	77.5 %	48.2-134	3101823	MS	18-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane	77.0 %	49.1-148	3101823	MS	18-Oct-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

CS - 14A (5)
H235699-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.7 %		71.5-134	3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			79.3 %		48.2-134	3101823	MS	18-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.6 %		49.1-148	3101823	MS	18-Oct-23	8015B	
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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
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

SW - 8C (2.5-5)**H235699-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	24000		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.1 %		71.5-134	3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	

Surrogate: 1-Chlorooctane			79.2 %		48.2-134	3101823	MS	18-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			78.3 %		49.1-148	3101823	MS	18-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

SW - 9B (0-5)
H235699-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.0 %	71.5-134		3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101823	MS	18-Oct-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.2 %	48.2-134		3101823	MS	18-Oct-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			76.0 %	49.1-148		3101823	MS	18-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

SW - 15A (0-5)**H235699-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			95.3 %		71.5-134	3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	

Surrogate: 1-Chlorooctane			78.2 %		48.2-134	3101823	MS	19-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			78.3 %		49.1-148	3101823	MS	19-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

SW - 16 (4.5-5)**H235699-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	3101829	AC	19-Oct-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3101828	MS	18-Oct-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3101828	MS	18-Oct-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.2 %		71.5-134	3101828	MS	18-Oct-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3101823	MS	19-Oct-23	8015B	

Surrogate: 1-Chlorooctane			79.5 %		48.2-134	3101823	MS	19-Oct-23	8015B	
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Surrogate: 1-Chlorooctadecane			77.8 %		49.1-148	3101823	MS	19-Oct-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3101829 - 1:4 DI Water									
Blank (3101829-BLK1)					Prepared & Analyzed: 18-Oct-23				
Chloride	ND	16.0	mg/kg						
LCS (3101829-BS1)					Prepared & Analyzed: 18-Oct-23				
Chloride	432	16.0	mg/kg	400	108	80-120			
LCS Dup (3101829-BSD1)					Prepared & Analyzed: 18-Oct-23				
Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101828 - Volatiles**Blank (3101828-BLK1)**

Prepared & Analyzed: 18-Oct-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.2	71.5-134			

LCS (3101828-BS1)

Prepared & Analyzed: 18-Oct-23

Benzene	2.10	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.16	0.050	mg/kg	2.00		108	86-128			
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128			
m,p-Xylene	4.38	0.100	mg/kg	4.00		109	89-129			
o-Xylene	2.02	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0450		mg/kg	0.0500		90.0	71.5-134			

LCS Dup (3101828-BS1)

Prepared & Analyzed: 18-Oct-23

Benzene	2.01	0.050	mg/kg	2.00		100	82.8-130	4.82	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	86-128	3.88	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	85.9-128	3.51	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89-129	2.75	16.2	
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	86.1-125	3.61	16.7	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	88.2-128	3.02	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0449		mg/kg	0.0500		89.8	71.5-134			

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Analytical Results For:

NTG ENVIRONMENTAL
701 TRADEWINDS BLVD. SUITE C
MIDLAND TX, 79706

Project: DARK CANYON
Project Number: 237454
Project Manager: BECKY HASKELL
Fax To:

Reported:
23-Oct-23 11:03

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3101823 - General Prep - Organics**Blank (3101823-BLK1)**

Prepared & Analyzed: 18-Oct-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	37.8		mg/kg	50.0		75.6	48.2-134			
Surrogate: 1-Chlorooctadecane	37.1		mg/kg	50.0		74.2	49.1-148			

LCS (3101823-BS1)

Prepared & Analyzed: 18-Oct-23

GRO C6-C10	169	10.0	mg/kg	200		84.3	66.4-123			
DRO >C10-C28	159	10.0	mg/kg	200		79.3	66.5-118			
Total TPH C6-C28	327	10.0	mg/kg	400		81.8	77.6-123			
Surrogate: 1-Chlorooctane	35.8		mg/kg	50.0		71.6	48.2-134			
Surrogate: 1-Chlorooctadecane	33.5		mg/kg	50.0		67.0	49.1-148			

LCS Dup (3101823-BS1)

Prepared & Analyzed: 18-Oct-23

GRO C6-C10	169	10.0	mg/kg	200		84.6	66.4-123	0.322	17.7	
DRO >C10-C28	170	10.0	mg/kg	200		85.1	66.5-118	7.10	21	
Total TPH C6-C28	339	10.0	mg/kg	400		84.8	77.6-123	3.67	18.5	
Surrogate: 1-Chlorooctane	39.0		mg/kg	50.0		78.0	48.2-134			
Surrogate: 1-Chlorooctadecane	38.4		mg/kg	50.0		76.9	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 cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



Company Name: NT6E

Page 13 of 13

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 281376

CONDITIONS

Operator: Earthstone Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 331165
	Action Number: 281376
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Earthstone's deferral requests final remediation for (Incident Number NAPP2315638319) until time of abandonment or upgrade of equipment allows for accessibility to the area. NTG Environmental and Earthstone do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The area requested for deferral is the area adjacent to the onsite separators, which include sample areas (CS-11A, SW-7A and SW-8C). At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	3/4/2024