Form C-141
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State of New Mexico
Oil Conservation Division

Incident ID	NRM2000635221
District RP	
Facility ID	
Application ID	

Closure

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

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

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] 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)

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

[X] Description of remediation activities

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

Printed Name: Carmen E. Pitt Title: Senior HSE Specialist

Signature: Carmen E Pitt Date: 9/29/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: Cristina Eads Date: 09/29/2020

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: 11/24/2020

Printed Name: Cristina Eads Title: Environmental Specialist

Remediation Summary and Soil Closure Request

Grizzly Energy, LLC
Cole State #10
Lea County, New Mexico
Unit Letter E, Section 16, Township 22 South, Range 37 East
Latitude 32.39287 North, Longitude 103.17297 West
NMOCD Reference No. nRM2000635221

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

Lance Crenshaw

Joel W. Lowry

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FIGURES

TABLES

APPENDICES

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Grizzly Energy, LLC, has prepared this Report for the Release Site known as the Cole State #10. Details of the release are summarized below:

Location of Release Source

Latitude: 32.39287 Longitude: -103.17297

Provided GPS are in WGS84 format.

Site Name:	Cole State #10	Site Type:	Flowline
Date Release Discovered:	11/4/2019	API # (if applicable):	30-025-22163

Unit Letter	Section	Township	Range	County
E	16	22S	37E	Lea

Surface Owner: [X] State [ ] Federal [ ] Tribal [ ] Private (Name _____)

Nature and Volume of Release

[X] Crude Oil	Volume Released (bbls) 0.6	Volume Recovered (bbls) 0.25
[X] Produced Water	Volume Released (bbls) 22	Volume Recovered (bbls) 0.25
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	[X] Yes [ ] No [ ] N/A
[ ] Condensate	Volume Released (bbls)	Volume Recovered (bbls)
[ ] Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
[ ] Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:
The release was attributed to a line plugging off, pressuring up and causing the rollergrip clamp to fail.

Initial Response

- [X] The source of the release has been stopped.
- [X] The impacted area has been secured to protect human health and the environment.
- [X] Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
- [X] All free liquids and recoverable materials have been removed and managed appropriately.

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~ 75 Ft.
Did the release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes ☐ No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
~ 75 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	10000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL SITE ASSESSMENT

On November 5 and 8, 2019, Etech conducted an initial release assessment at the Site. During the initial release assessment, a series of hand-augered soil bores (V1 through V5) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores and/or test trenches were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID) and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

Based on field observations and field test data, thirty-two (32) delineation soil samples (V1 @ 3.5'-R, V2 @ Surf., V3 @ Surf., V4 @ 1', V5 @ Surf., V5 @ 1.5'-R, NH1 @ Surf., NH1 @ 1', EH1 @ Surf., EH1 @ 1', EH2 @ Surf., EH2 @ 1', EH3 @ Surf., EH3 @ 1', EH4 @ Surf., EH4 @ 1', EH5 @ Surf., EH5 @ 1', SH1 @ Surf., SH1 @ 1', SH2 @ Surf., SH2 @ 1', WH1 @ Surf., WH1 @ 1', WH2 @ Surf., WH2 @ 1', WH3 @ Surf., WH3 @ 1', WH4 @ Surf., WH4 @ 1', WH5 @ Surf. and WH5 @ 1') were submitted to the laboratory for analysis of BTEX, TPH and chloride. Based on laboratory analytical results, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. Additional vertical delineation would be required in the areas characterized by sample points V1 through V5. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

On December 6, 2019, Etech revisited the Site. During the site visit, a series of hand-augered soil bores were advanced within the release margins in the areas characterized by sample points V3 through V5 an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bores, three (3) delineation soil samples (V3 @ 4', V4 @ 3' and V5 @ 3') were collected and submitted to the laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample V4 @ 3', which exhibited a TPH concentration of 554.4 mg/kg.

On December 23, 2019, Etech revisited the Site in an effort to further investigate impacted soil in the areas characterized by sample points V1, V2, V4 and V5. During the site visit, a series of hand-augered soil bores were advanced within the release margins in the areas characterized by sample points V1, V2, V4 and V5 in an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bores, four (4) delineation soil samples (V1 @ 4', V2 @ 4', V4 @ 4' and V5 @ 4') were collected and submitted to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples V1 @ 4' and V4 @ 4', which exhibited TPH concentrations of 7,478 mg/kg and 8,521 mg/kg, respectively. Collection of additional samples from sample points V1 and V4 was precluded due to the presence of a resilient rock layer.

On February 19, 2020, Etech revisited the Site in an effort to further investigate impacted soil in the areas characterized by sample points V1 and V4. During the site visit, a series of test trenches were advanced within the release margins in the areas characterized by sample points V1 and V4 in an effort to determine the vertical extent of soil impacts. During the advancement of the test trenches, four (4) delineation soil samples (V1 @ 5', V1 @ 6', V4 @ 8' and V4 @ 9') were collected and submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

Based on laboratory analytical results, the horizontal extent of affected soil impacted above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was adequately defined and soil was not affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard beyond 5 Ft. bgs in the area characterized by sample point V1, 4 Ft. bgs in the areas characterized by sample points V2, V3 and V5, and 8 Ft. bgs in the area characterized by sample point V4. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

5.0 PROPOSED REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Grizzly Energy, LLC proposes the following remediation activities designed to advance the Site toward an approved closure:

•Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in the area characterized by sample point V1 to an estimated depth of 5 Ft. bgs, the areas characterized by sample points V2, V3 and V5 to an estimated depth of 4 Ft. bgs, and the area characterized by sample point V4 to an estimated depth of 8 Ft bgs..

•The floor and sidewalls of the excavated area will be advanced until laboratory analytical results indicated impacted soil affected above the NMOCD Closure Criteria has been removed.

•Excavated material will be temporarily stockpiled on-site, then transported to an NMOCD-approved disposal facility.

•Upon excavating impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard, collect the requisite excavation confirmation soil samples.

•Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted "like" material.

•Excavation backfill will be contoured to match the surrounding topography.

•Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

6.0 REGULATORY APPROVALS AND STIPULATIONS

On March 6th, 2020, a Site Assessment Report and Proposed Remediation Workplan was submitted to the NMOCD proposing remediation activities designed to advance the Site toward regulatory closure. The Site Assessment Report and Proposed Remediation Workplan was subsequently approved.

Please reference the Site Assessment Report and Proposed Remediation Workplan for additional details regarding site characterization and proposed remediation activities.

7.0 REMEDIATION ACTIVITIES SUMMARY

On August 24, 2020, remediation activities commenced at the Site. In accordance with the approved workplan, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending final disposition at an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggesting BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On August 24, 2020, Etech collected six (6) excavation confirmation soil samples (NWW1, NEW1, SWW1, FL1 @ 4', FL2 @ 4', and FL3 @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exceptions of SWW1 and FL3 @ 4', which exhibited GRO+DRO concentrations of 1,260 mg/kg and 1,810 mg/kg, respectively.

On August 25, 2020, Etech collected nine (9) excavation confirmation soil samples (FL4 @4', FL5@4', FL6 @4', SWW #2, NEW #2, FL7 @ 4', FL8 @ 4', FL9 @ 4', and FL10 @ 4'). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of FL4 @ 4', which exhibited a GRO+DRO concentration of 1,040 mg/kg.

On August 26, 2020, Etech collected eight (8) excavation confirmation soil samples (FL11 @ 4', FL12 @ 4', FL13 @4', FL14 @4', FL15 @4', SWW3, NEW3, and SEW1). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples with the exceptions of FL11 @ 4', FL12 @ 4', and FL15 @ 4', which exhibited GRO+DRO concentrations of 1,250 mg/kg, 1,980 mg/kg, and 1,130 mg/kg, respectively.

On September 9, 2020, excavation activities resumed at the Site. Impacted soil in the areas characterized by sample points NWW1, SWW1, FL3 @ 4', FL4 @ 4', FL11 @ 4', FL12 @ 4', and FL15 @ 4' was excavated and transported to an NMOCD-approved surface waste facility for disposal. Upon excavating impacted soil remaining in-situ, Etech collected seven (7) additional excavation confirmation soil samples (NWW1B, SWW1B, FL3 @5', FL4 @5', FL11 @5', FL12 @5', and FL15 @5') and submitted them to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

On September 10, 2020, Etech collected seven (7) excavation confirmation soil samples (FL 16 @ 5', FL 17 @ 5', FL 18 @ 5', FL 19 @ 5', FL 20 @ 5', SWW 4, and NEW 4). The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and/or chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided as Appendix C.

The final dimensions of the excavated area were 240 Ft. in length, 5 to 100 Ft. in width and ranged from 4 to 5 Ft. in depth. During the course of remediation activities approximately 640 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

9.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with an approved Workplan. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard was excavated and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH and chloride are below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

Based on laboratory analytical results and field activities conducted to date, Etech recommends Grizzly Energy, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the Cole State #10 Site.

10.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Grizzly Energy, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or Grizzly Energy, LLC.

11.0 DISTRIBUTION

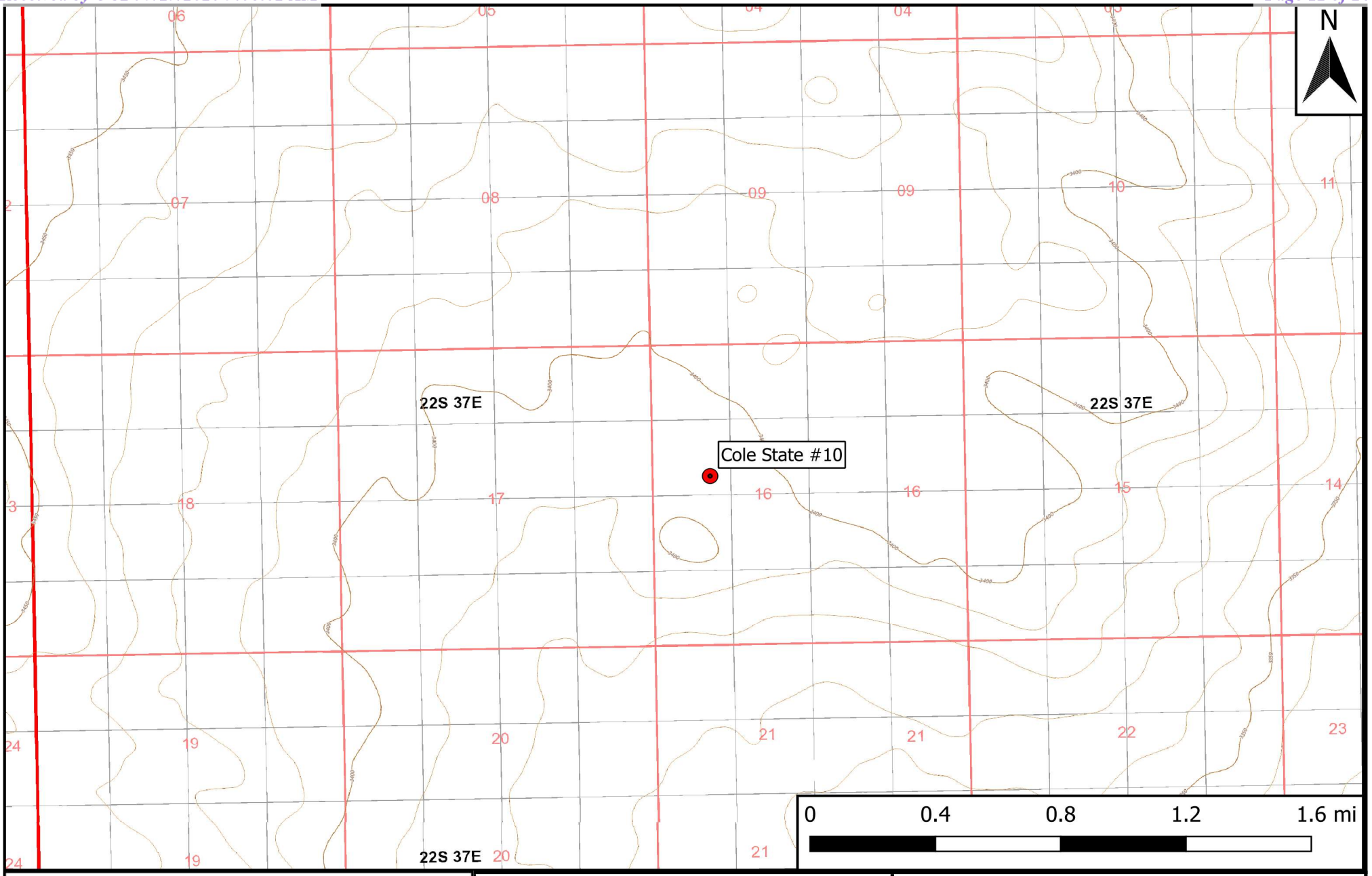
Grizzly Energy, LLC
4001 Penbrook
Suite 201
Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1220 South St. Francis Drive
Santa Fe, NM 87505

Hobbs Field Office
New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240

(Electronic Submission)

Figure 1
Topographic Map



Legend

Site Location

Figure 1

Topographic Map

Grizzly Energy, LLC

Cole State #10

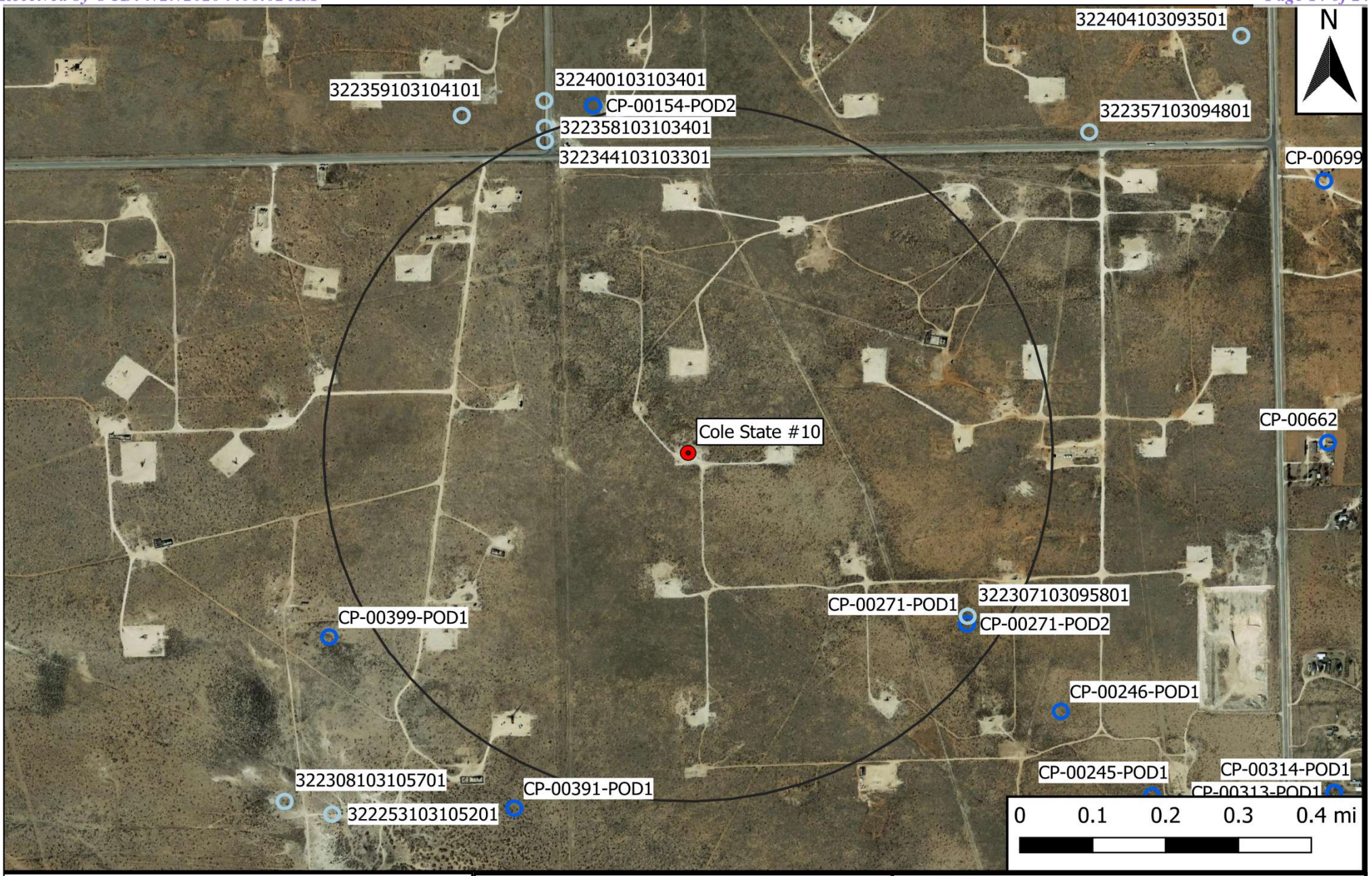
GPS: 32.39277, -103.17335

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 11/6/19

Figure 2
Aerial Proximity Map



Legend

- Site Location
- Potash Mine Workings
- 0.5 Mi Radius
- 1% Annual Flood Chance
- Surface Water
- Well - USGS
- Well - NMOSE
- High Karst
- Medium Karst

Figure 2

Aerial Map

Grizzly Energy, LLC

Cole State #10

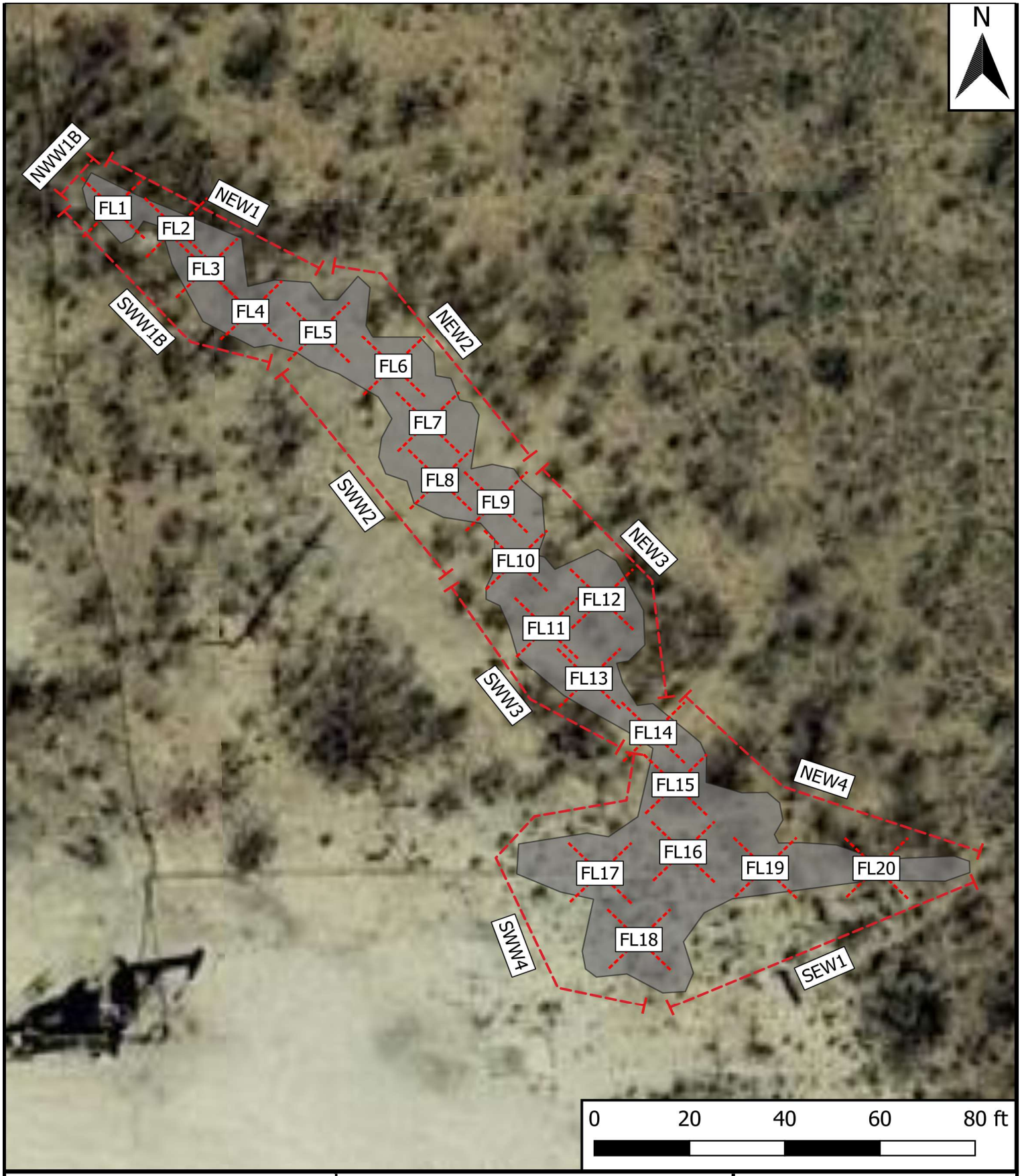
GPS: 32.39277, -103.17335

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 11/6/19

Figure 3
Site and Sample Location Map



Legend

- Floor Sample
- Wall Sample
- Excavation

Figure 3

Site and Sample Location Map

Grizzly Energy, LLC

Cole State #10

GPS: 32.39287, -103.17297

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag

Checked: jwl Date: 9/23/20

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Grizzly Energy, LLC
Cole State #10
NMOCD Ref. #: nRM2000635221

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1000**	**-**	**2500**	**10000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
V 2 @ SURFACE	11/5/2019	Surf	Excavated	1.99	**187**	1,870	4,980	**6,850**	434	**7,280**	1,600
V 3 @ SURFACE	11/5/2019	Surf	Excavated	5.49	**445**	11,200	45,000	**56,200**	6,930	**63,100**	1,200
V 4 @ 1'	11/5/2019	1'	Excavated	0.349	**89.7**	846	2,880	**3,730**	213	**3,940**	464
V 5 @ SURFACE	11/5/2019	Surf	Excavated	5.15	**767**	15,400	54,200	**69,600**	8,010	**77,600**	<16.0
SH 1 @ SURFACE	11/5/2019	Surf	In-Situ	<0.050	0.543	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SH 1 @ 1'	11/5/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 2 @ SURFACE	11/5/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SH 2 @ 1'	11/5/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 1 @ SURFACE	11/5/2019	Surf	In-Situ	<0.200	<1.20	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 1 @ 1'	11/5/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 1 @ SURFACE	11/5/2019	Surf	In-Situ	<0.050	<0.300	<10.0	19.7	19.7	<10.0	19.7	<16.0
WH 1 @ 1'	11/5/2019	1'	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	<16.0
V 1 @ 3.5' -R	11/8/2019	3.5'	In-Situ	<0.050	3.08	51.5	612	664	55.2	719	1,010
V 5 @ 1.5' - R	11/8/2019	1.5'	In-Situ	<0.050	0.319	<10.0	190	190	<10.0	190	32.0
WH 2 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 2 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
WH 3 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 3 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WH 4 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 4 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
WH 5 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
WH 5 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 2 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 2 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 3 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
EH 3 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
EH 4 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
EH 4 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 5 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
EH 5 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NH 1 @ SURFACE	11/8/2019	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NH 1 @ 1'	11/8/2019	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
V 3 @ 4'	12/6/2019	4'	In-Situ	<0.050	0.917	35.1	758	793	106	899	1,150
V 4 @ 3'	12/6/2019	3'	In-Situ	<0.050	<0.300	<10.0	468	468	86.4	554	64.0
V5 @ 3'	12/6/2020	3'	Excavated	-	-	-	-	-	-	-	96.0
V 1 @ 4'	12/23/2019	4'	Excavated	<0.050	1.00	37.9	5,990	**6,030**	1,450	**7,480**	528
V 2 @ 4'	12/23/2019	4'	In-Situ	<0.050	<0.300	11.7	697	709	173	882	896
V 4 @ 4'	12/23/2019	4'	Excavated	<0.100	0.974	50.7	6,970	**7,020**	1,500	**8,520**	80.0
V 5 @ 4'	12/23/2019	4'	In-Situ	<0.050	<0.300	<10.0	654	654	156	810	64.0
V 1 @ 5'	2/19/2020	5'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V 1 @ 6'	2/19/2020	6'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

NOTES:

- = Sample not analyzed for that constituent.

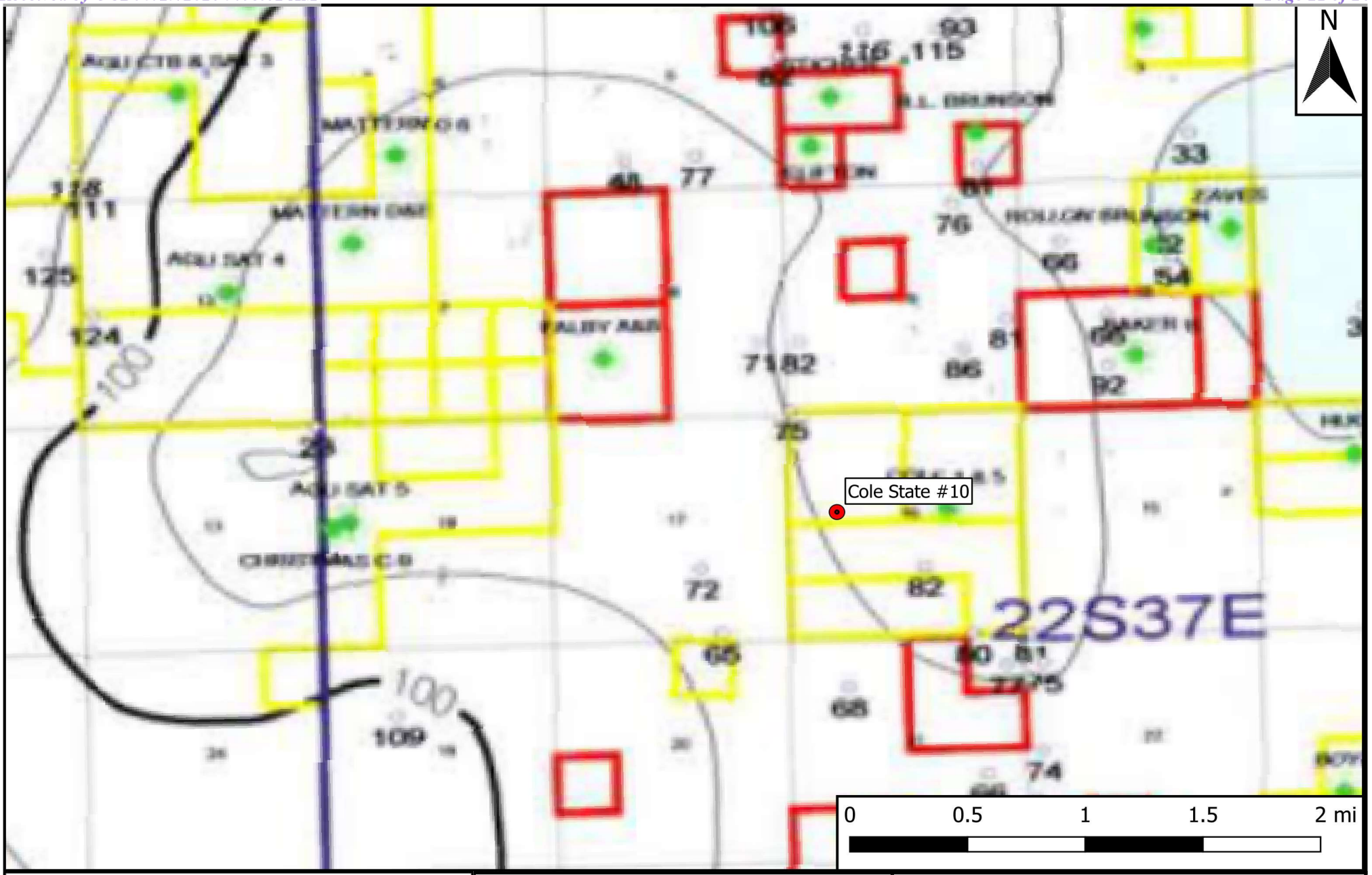
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
Grizzly Energy, LLC
Cole State #10
NMOCD Ref. #: nRM2000635221

NMOCD Closure Criteria				**10**	**50**	**-**	**-**	**1000**	**-**	**2500**	**10000**
NMOCD Reclamation Standard				**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Sample ID	**Date**	**Depth**	**Soil Status**	**SW 846 8021B**		**SW 846 8015M Ext.**					**4500 Cl**
				Benzene (mg/kg)	**BTEX (mg/kg)**	**GRO C_6-C_{10} (mg/kg)**	**DRO C_{10}-C_{28} (mg/kg)**	**GRO + DRO C_6-C_{28} (mg/kg)**	**ORO C_{28}-C_{36} (mg/kg)**	**TPH C_6-C_{36} (mg/kg)**	**Chloride (mg/kg)**
V 4 @ 8'	2/19/2020	8'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
V 4 @ 9'	2/19/2020	9'	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
NWW1	8/24/2020	N/A	Excavated	<0.00199	<0.00199	<50.0	420	420	<50.0	420	9.90
NEW1	8/24/2020	N/A	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	11.7
SWW1	8/24/2020	N/A	Excavated	<0.00200	<0.00200	<49.9	1,260	**1,260**	117	1,380	63.4
FL1 @ 4'	8/24/2020	4'	In-Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	490
FL2 @ 4'	8/24/2020	4'	In-Situ	<0.00199	<0.00199	<49.9	228	228	<49.9	228	218
FL3 @ 4'	8/24/2020	4'	Excavated	<0.00201	0.215	226	1,580	**1,810**	120	1,930	441
FL4 @4'	8/25/2020	4'	Excavated	<0.00200	<0.00200	<49.9	1,040	**1,040**	104	1,140	93.6
FL5@4'	8/25/2020	4'	In-Situ	<0.00198	<0.00198	<49.8	621	621	59.0	680	1,090
FL6 @4'	8/25/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	483	483	<50.0	483	1,420
SWW #2	8/25/2020	N/A	In-Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	9.19
NEW #2	8/25/2020	N/A	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	72.5
FL7 @ 4'	8/25/2020	4'	In-Situ	<0.00200	<0.00200	<49.9	156	156	<49.9	156	864
FL8 @ 4'	8/25/2020	4'	In-Situ	<0.00199	<0.00199	<50.0	137	137	<50.0	137	1,990
FL9 @ 4'	8/25/2020	4'	In-Situ	<0.00198	<0.00198	<49.8	71.9	71.9	<49.8	71.9	628
FL10 @ 4'	8/25/2020	4'	In-Situ	<0.00200	<0.00200	<50.0	958	958	89.1	1,050	1,690
FL11 @ 4'	8/26/2020	4'	Excavated	<0.00199	<0.00199	<49.9	1,250	**1,250**	94.1	1,340	1,630
FL12 @ 4'	8/26/2020	4'	Excavated	<0.00200	<0.00200	<50.0	1,980	**1,980**	119	2,100	1,720
FL13 @4'	8/26/2020	4'	In-Situ	<0.00198	<0.00198	<49.9	141	141	<49.9	141	1,370
FL14 @4'	8/26/2020	4'	In-Situ	<0.00198	<0.00198	<49.9	300	300	<49.9	300	1,310
FL15 @4'	8/26/2020	4'	Excavated	<0.00199	0.161	69.5	1,060	**1,130**	78.2	1,210	1,190
SWW3	8/26/2020	N/A	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	11.3
NEW3	8/26/2020	N/A	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	262
SEW1	8/26/2020	N/A	In-Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	9.78
NWW1B	9/9/2020	N/A	In-Situ	-	-	<49.9	<49.9	<49.9	<49.9	<49.9	-
SWW1B	9/9/2020	N/A	In-Situ	-	-	<49.8	<49.8	<49.8	<49.8	<49.8	-
FL3 @5'	9/9/2020	5'	In-Situ	-	-	<50.2	<50.2	<50.2	<50.2	<50.2	-
FL4 @5'	9/9/2020	5'	In-Situ	-	-	<49.8	<49.8	<49.8	<49.8	<49.8	-
FL11 @5'	9/9/2020	5'	In-Situ	-	-	<49.9	<49.9	<49.9	<49.9	<49.9	-
FL12 @5'	9/9/2020	5'	In-Situ	-	-	<50.2	<50.2	<50.2	<50.2	<50.2	-
FL15 @5'	9/9/2020	5'	In-Situ	-	-	<50.0	<50.0	<50.0	<50.0	<50.0	-
FL 16 @ 5'	9/10/2020	5'	In-Situ	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	241
FL 17 @ 5'	9/10/2020	5'	In-Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	255
FL 18 @ 5'	9/10/2020	5'	In-Situ	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	245
FL 19 @ 5'	9/10/2020	5'	In-Situ	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	254
FL 20 @ 5'	9/10/2020	5'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	137
SWW 4	9/10/2020	N/A	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	97.8

NOTES:
- = Sample not analyzed for that constituent.
Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Grizzly Energy, LLC

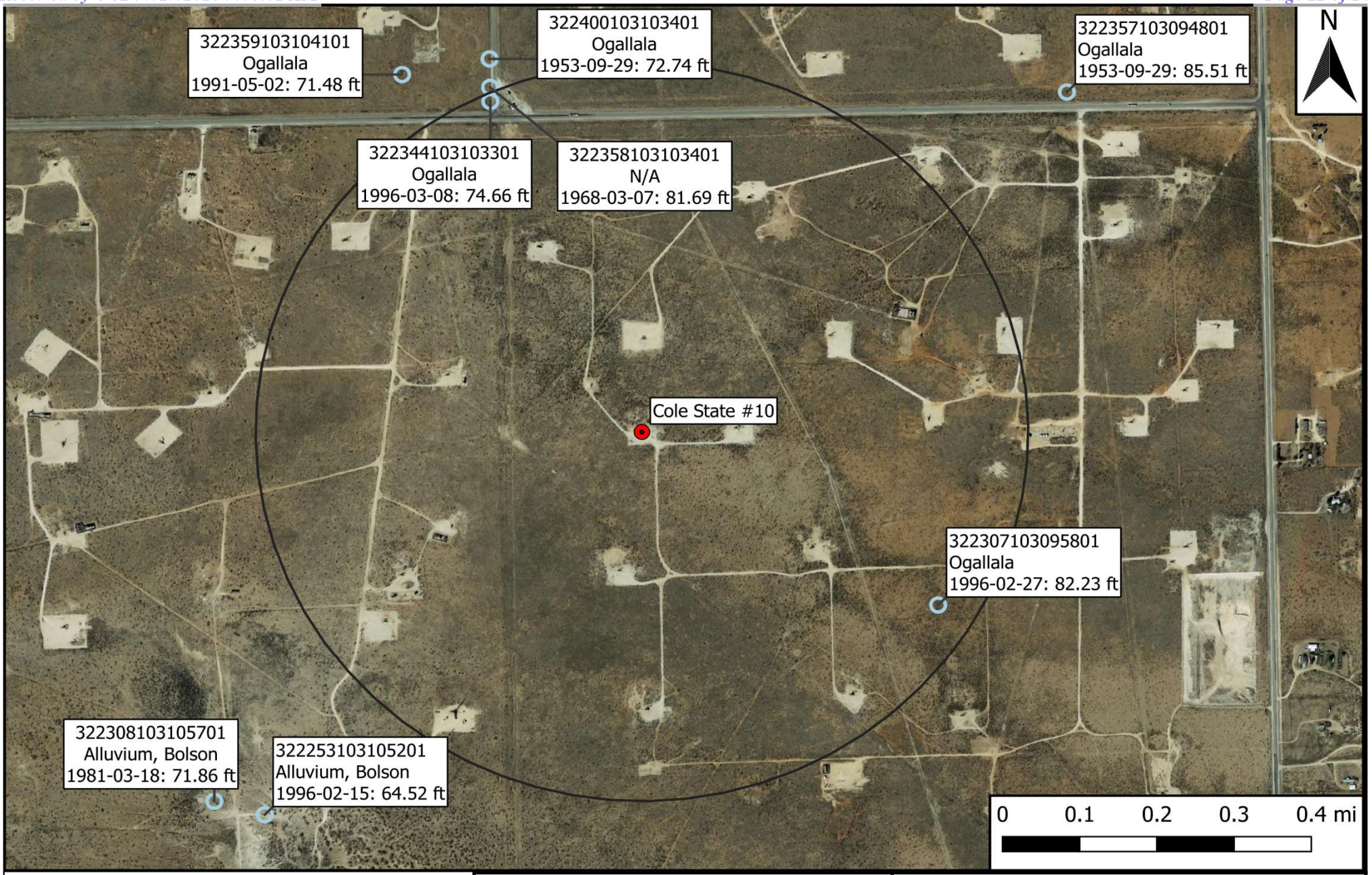
Cole State #10

GPS: 32.39277, -103.17335

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 11/6/19



Legend
- Site Location
- Well - USGS

Figure 5
USGS Well Proximity Map
Grizzly Energy, LLC
Cole State #10
GPS: 32.39277, -103.17335
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 11/6/19

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 671809.79 **Northing (Y):** 3585440.13 **Radius:** 804.67

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00154 POD2		CP	LE	3	3	3	09	22S	37E	671600	3586239*	825	172		
CP 00391 POD1		CP	LE	4	4	4	17	22S	37E	671426	3584623*	902	96		
CP 00246 POD1		CP	LE	2	3	4	16	22S	37E	672633	3584845*	1015	135		
CP 00871		CP	LE			3	09	22S	37E	671902	3586541*	1104	167	94	73
CP 01353 POD1		CP	LE	3	1	3	09	22S	37E	671514	3586640	1236	93	73	20
CP 00245 POD1		CP	LE	3	4	4	16	22S	37E	672835	3584652*	1293	136		
CP 00662		CP	LE	3	3	1	15	22S	37E	673223	3585464*	1413	180	150	30
CP 00699		CP	LE	1	1	1	15	22S	37E	673215	3586066*	1538	163	100	63
CP 00709		CP	LE		1	3	15	22S	37E	673331	3585163*	1546	200	87	113
CP 01806 POD1		CP	LE	1	3	3	15	22S	37E	673260	3584788	1590	162	95	67
CP 00674		CP	LE		1	1	15	22S	37E	673316	3585967*	1595	100	75	25
CP 00684		CP	LE		1	1	15	22S	37E	673316	3585967*	1595	200	180	20

Average Depth to Water: **106 feet**
Minimum Depth: **73 feet**
Maximum Depth: **180 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 671809.79 **Northing (Y):** 3585440.13 **Radius:** 1610

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00245 POD1	3	4	4	16	22S	37E	672835	3584652*

Driller License: **Driller Company:**

Driller Name:

Drill Start Date: **Drill Finish Date:** 02/17/1947 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 40 GPM

Casing Size: 8.63 **Depth Well:** 136 feet **Depth Water:**

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00246 POD1	2	3	4	16	22S	37E	672633	3584845*

Driller License: **Driller Company:**

Driller Name:

Drill Start Date: **Drill Finish Date:** 05/17/1949 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 33 GPM

Casing Size: 7.00 **Depth Well:** 135 feet **Depth Water:**

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

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twws	Rng	X	Y
	CP 00391 POD1	4	4	4	17	22S	37E	671426	3584623*

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

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name:

Drill Start Date: **Drill Finish Date:** **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 10 GPM

Casing Size: 8.00 **Depth Well:** 96 feet **Depth Water:**

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00662	3	3	1	15	22S	37E	673223	3585464*

Driller License: 764 **Driller Company:** B & A WATER WELL SERVICE

Driller Name: SELMAN, AL

Drill Start Date: 07/16/1983 **Drill Finish Date:** 07/20/1983 **Plug Date:**

Log File Date: 08/09/1983 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 6.00 **Depth Well:** 180 feet **Depth Water:** 150 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	170	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	160	180

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00674		1	1	15	22S	37E	673316	3585967*

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name: VAN NOY, W.L.

Drill Start Date:	03/19/1985	**Drill Finish Date:**	03/27/1985	**Plug Date:**	
Log File Date:	04/08/1985	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3 GPM
Casing Size:	7.00	**Depth Well:**	100 feet	**Depth Water:**	75 feet

Water Bearing Stratifications:	Top	Bottom	Description
	75	100	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	85	100

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twp	Rng	X	Y
	CP 00684	1	1		15	22S	37E	673316	3585967*

Driller License: 208 **Driller Company:** VAN NOY, W.L.

Driller Name: VAN NOY, W.L.

Drill Start Date: 07/24/1985 **Drill Finish Date:** 08/01/1985 **Plug Date:**

Log File Date: 08/14/1985 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 200 feet **Depth Water:** 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	175	180	Sandstone/Gravel/Conglomerate
	180	200	Other/Unknown

Casing Perforations:	Top	Bottom
	180	200

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00699	1	1	1	15	22S	37E	673215	3586066*

Driller License: 982 **Driller Company:** EADES, GENE

Driller Name: EADES, GENE

Drill Start Date:	06/02/1986	**Drill Finish Date:**	06/02/1986	**Plug Date:**	
Log File Date:	07/11/1986	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	6 GPM
Casing Size:	5.75	**Depth Well:**	163 feet	**Depth Water:**	100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	100	163	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	123	163

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twp	Rng	X	Y
	CP 00709	1	3		15	22S	37E	673331	3585163*

Driller License: 657 **Driller Company:** OLDAKER & SONS

Driller Name: OLDAKER, GEORGE D.(DECEASED)

Drill Start Date:	04/28/1987	**Drill Finish Date:**	04/29/1987	**Plug Date:**	
Log File Date:	08/31/1988	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	25 GPM
Casing Size:	6.00	**Depth Well:**	200 feet	**Depth Water:**	87 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	87	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	117	147

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twp	Rng	X	Y
	CP 00871			3	09	22S	37E	671902	3586541*

Driller License: 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALAN

Drill Start Date: 09/29/1997 **Drill Finish Date:** 09/29/1997 **Plug Date:**

Log File Date: 11/04/1997 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.75 **Depth Well:** 167 feet **Depth Water:** 94 feet

Water Bearing Stratifications:	Top	Bottom	Description
	124	145	Sandstone/Gravel/Conglomerate
	145	164	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	147	167

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

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twp	Rng	X	Y
	CP 01353 POD1	3	1	3	09	22S	37E	671514	3586640

Driller License: 1292 **Driller Company:** BENTLE WATER WELL SERVICE

Driller Name: BENTLE, BILLY L.

Drill Start Date:	05/04/2015	**Drill Finish Date:**	05/18/2015	**Plug Date:**	
Log File Date:	05/28/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	9 GPM
Casing Size:	6.00	**Depth Well:**	93 feet	**Depth Water:**	73 feet

Water Bearing Stratifications:	Top	Bottom	Description
	83	93	Other/Unknown

Casing Perforations:	Top	Bottom
	73	93

New Mexico Office of the State Engineer

Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
2247E	CP 01806 POD1	1	3	3	15	22S	37E	673260	3584788

Driller License: 1477 **Driller Company:** M & W WATERWELL SERVICE

Driller Name: ROBERT MAUCK

Drill Start Date:	10/20/2019	**Drill Finish Date:**	10/21/2019	**Plug Date:**	
Log File Date:	10/28/2019	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	10 GPM
Casing Size:		**Depth Well:**	162 feet	**Depth Water:**	95 feet

Water Bearing Stratifications:	Top	Bottom	Description
	107	162	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	142	162

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twws	Rng	X	Y
	CP 00154 POD2	3	3	3	09	22S	37E	671600	3586239*

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

Driller License:
Driller Company:
Driller Name: ED BURKE

Drill Start Date: 01/31/1946
Drill Finish Date: 01/31/1946
Plug Date:
Log File Date:
PCW Rcv Date: 03/12/1992
Source: Shallow
Pump Type:
Pipe Discharge Size:
Estimated Yield: 34 GPM
Casing Size:
Depth Well: 172 feet
Depth Water:

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

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322253103105201

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

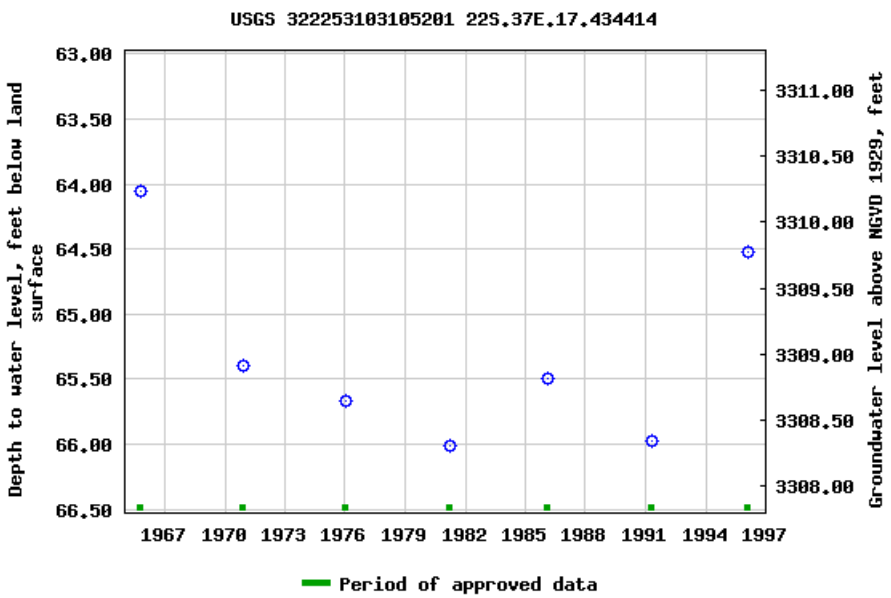
USGS 322253103105201 22S.37E.17.434414

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'07", Longitude 103°10'53" NAD27
Land-surface elevation 3,374.30 feet above NGVD29
The depth of the well is 96 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:23:58 EST
0.61 0.45 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322307103095801

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

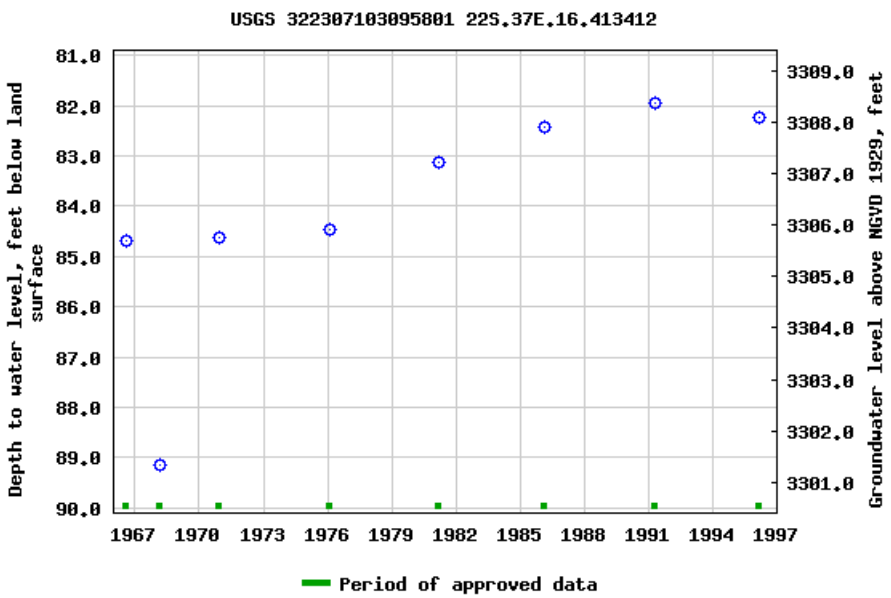
USGS 322307103095801 22S.37E.16.413412

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'21", Longitude 103°09'59" NAD27
Land-surface elevation 3,390.40 feet above NGVD29
The depth of the well is 140 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:23:59 EST
0.52 0.44 nadww01

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USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322308103105701

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

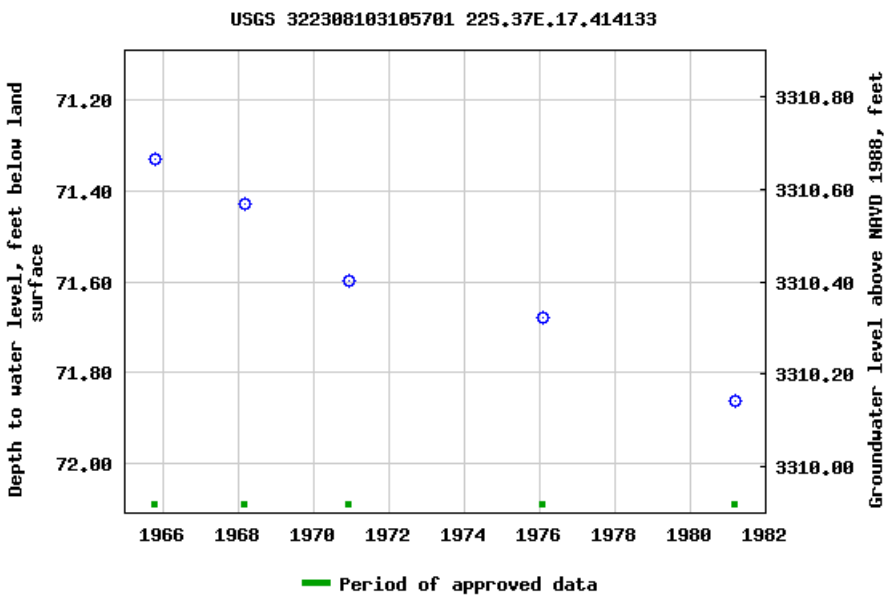
USGS 322308103105701 22S.37E.17.414133

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'08", Longitude 103°10'57" NAD27
Land-surface elevation 3,382 feet above NAVD88
The depth of the well is 110 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:23:59 EST
0.54 0.46 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322344103103301

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

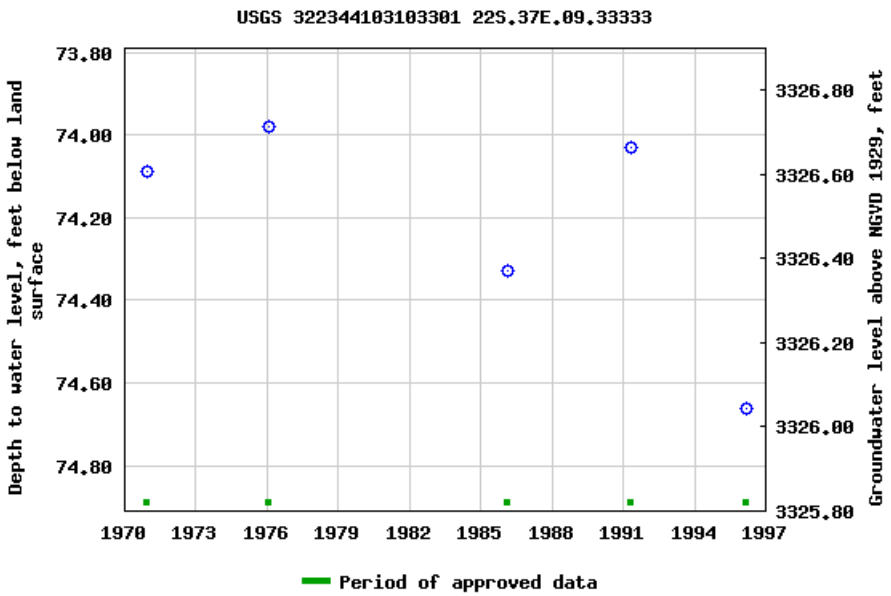
USGS 322344103103301 22S.37E.09.33333

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'57", Longitude 103°10'34" NAD27
Land-surface elevation 3,400.70 feet above NGVD29
The depth of the well is 172 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



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Questions about sites/data?
Feedback on this web site
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:24:00 EST
0.58 0.44 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322357103094801

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

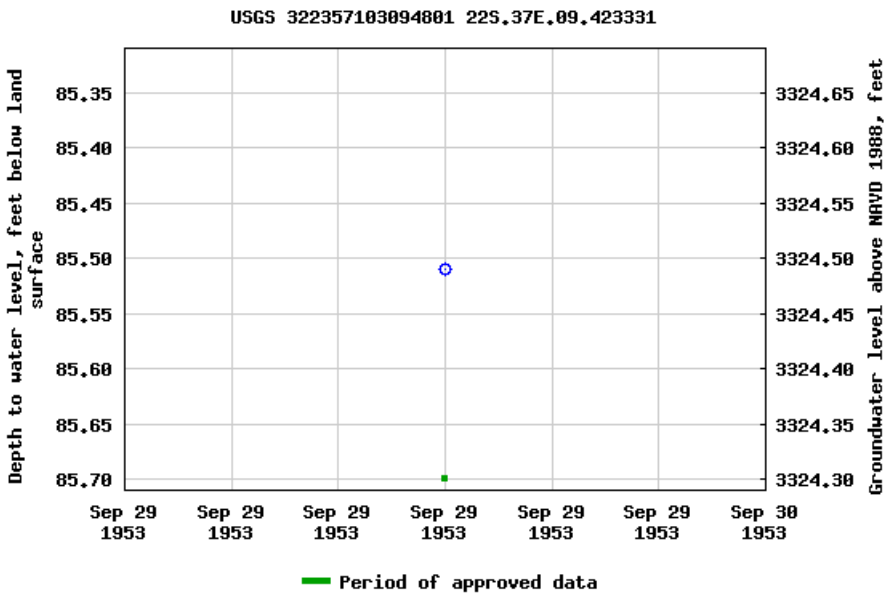
USGS 322357103094801 22S.37E.09.423331

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'57", Longitude 103°09'48" NAD27
Land-surface elevation 3,410 feet above NAVD88
The depth of the well is 115 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:24:00 EST
0.59 0.45 nadww01

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322358103103401

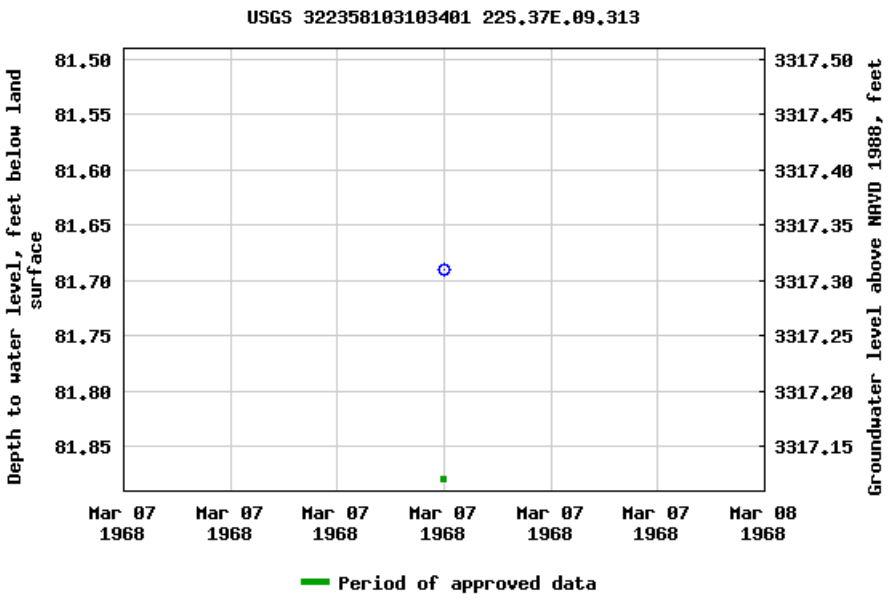
Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 322358103103401 22S.37E.09.313

Available data for this site | Groundwater: Field measurements | GO
Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'58", Longitude 103°10'34" NAD27
Land-surface elevation 3,399 feet above NAVD88

Output formats

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



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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:24:01 EST
0.56 0.47 nadww01

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USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322359103104101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

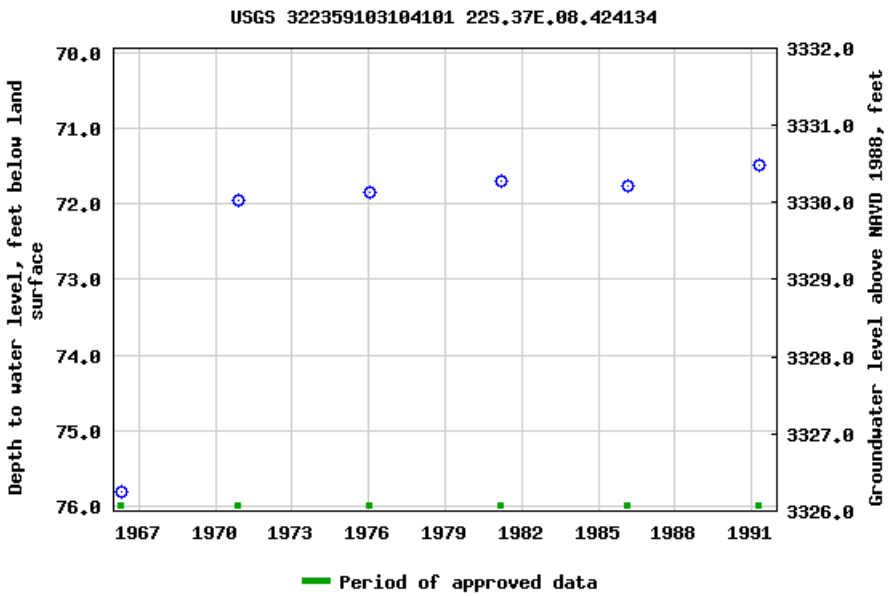
USGS 322359103104101 22S.37E.08.424134

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°23'59", Longitude 103°10'41" NAD27
Land-surface elevation 3,402 feet above NAVD88
The depth of the well is 168 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:24:02 EST
0.52 0.46 nadww01

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Data Category: Groundwater | Geographic Area: United States | GO

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 322400103103401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

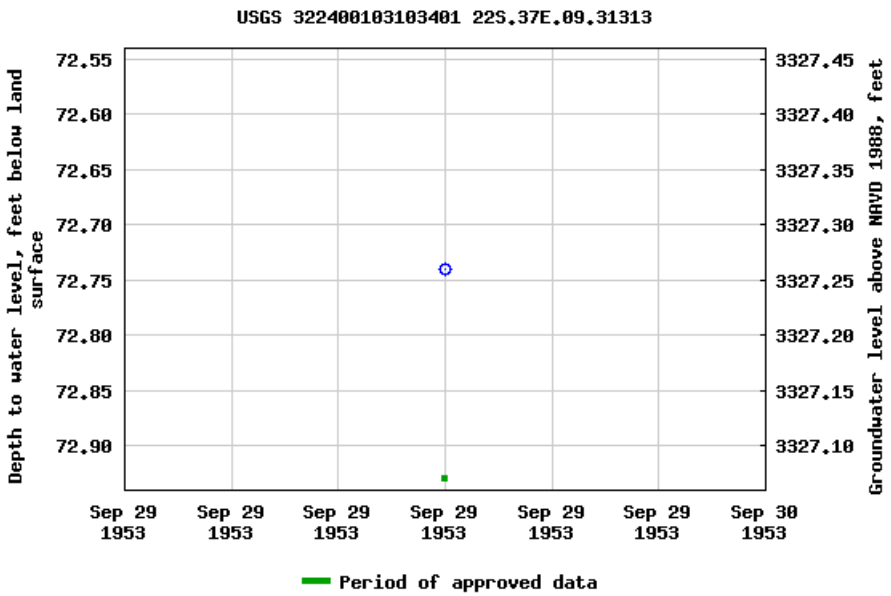
USGS 322400103103401 22S.37E.09.31313

Available data for this site | Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°24'00", Longitude 103°10'34" NAD27
Land-surface elevation 3,400 feet above NAVD88
The depth of the well is 140 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

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U.S. Department of the Interior | U.S. Geological Survey

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

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-11-06 13:24:03 EST
0.55 0.47 nadww01

Appendix B
Field Data and Soil Profile Logs

eTECH Environmental & Safety Solutions, Inc.

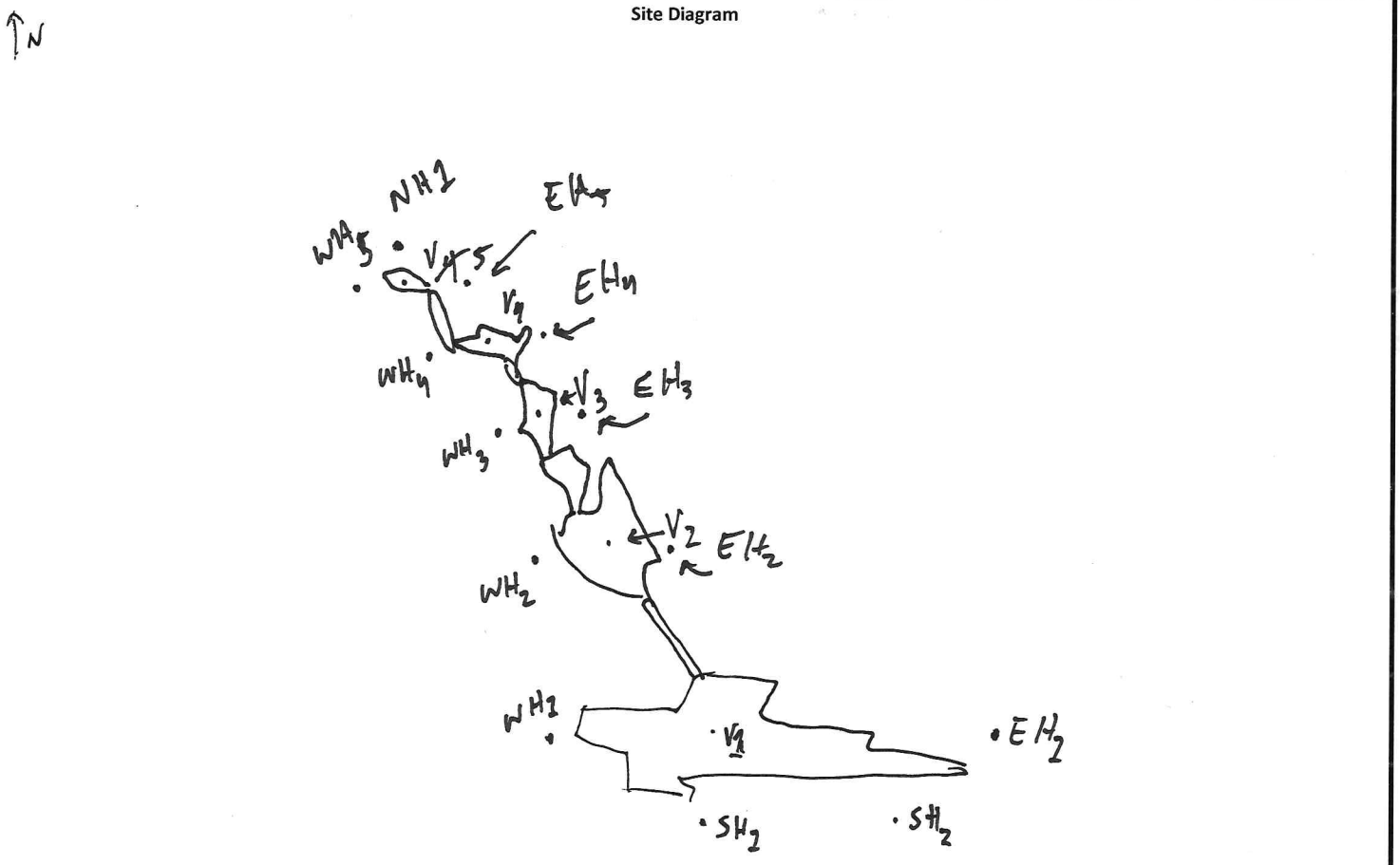
Initial Release Assessment Form

Date: 11/5/19

Project: Cole State #10 Clean Up Level: 10K ci 0

Project Number: ~~0~~ 11465 Latitude: 32.39277 Longitude: -103.17335

Site Diagram



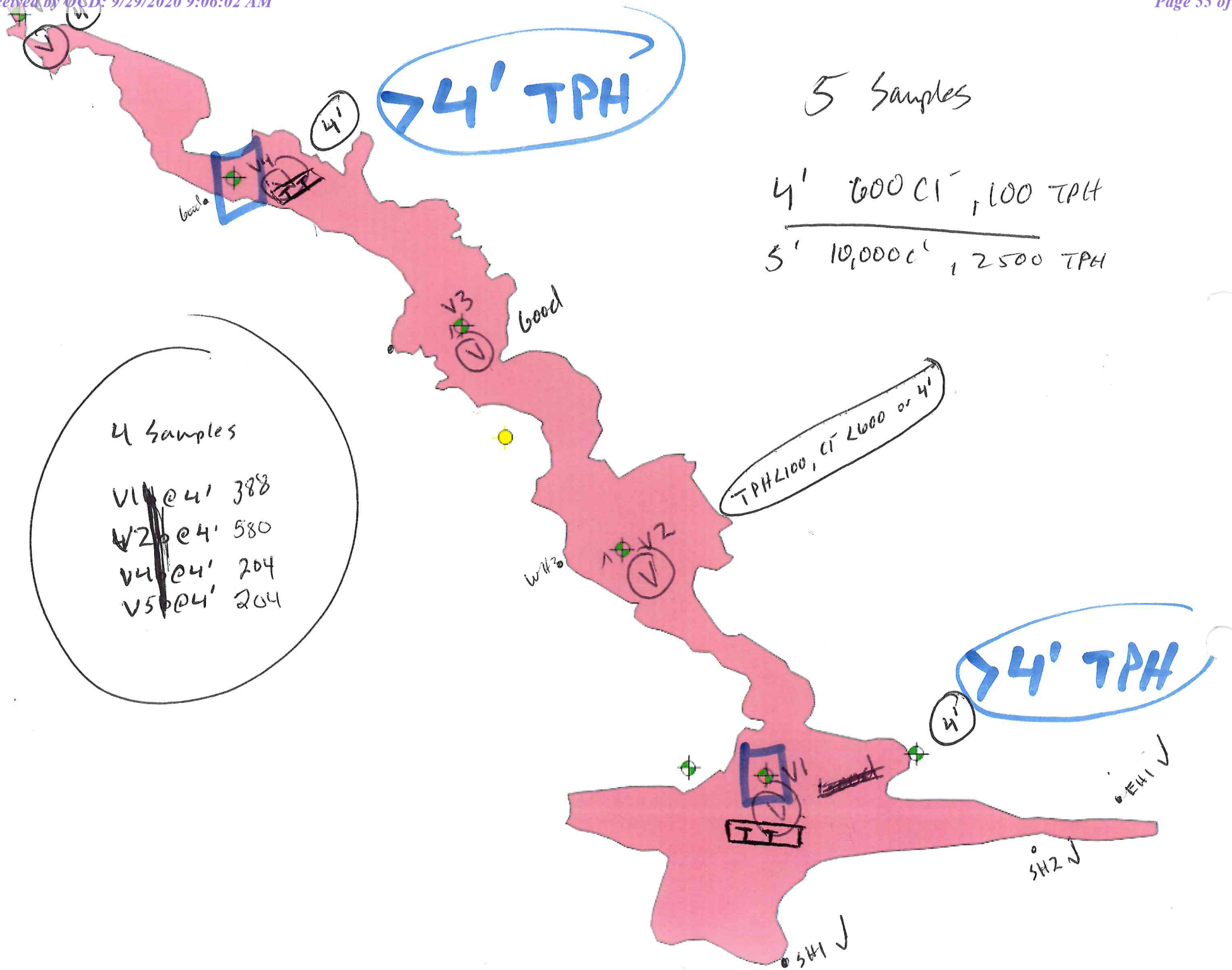
Notes:

Ground affected at 1' at least.

~Length: ~Width: ~Area: ~Depth:

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☑	☐
Necessary Samples Field Screened and on Ice?	☑	☐
Sample and Field Screen Data Entered on Sample Log?	☑	☐
Was horizontal and vertical delineation achieved?	☑	☐

2/19/20


>4' TPH
5 Samples
4' 600 Cl⁻, 100 TPH
5' 10,000 Cl⁻, 2500 TPH
4 Samples
V1 @ 4' 388
V2 @ 4' 580
V4 @ 4' 204
V5 @ 4' 204
V4
V3
V2
V1
4'
Good
TPH<100, Cl⁻ <600 @ 4'
>4' TPH
SH1
SH2
EH1

TECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 11/5/19

Project: Cole State #10

Project Number: 0 Latitude: 32.39277 Longitude: -103.17335

Sample ID	PID/Odor	Chloride Conc.		GPS
V1 @ Surf.	Yes	1032	10:00	See trimble data
~~V1~~ V2 @ 1'	Yes	964	10:05	
V2 @ Surf	Yes	2320	10:10	
V2 @ 1' - R	Y	1880	10:15	
V3 @ Surf	Y	1320	10:20	
V3 @ 1'	Y	648	10:25	
V4 @ Surf	Y	652	10:30	
V4 @ 1'	Slight?	896	10:35	
V5 @ Surf	Y	<116	10:40	
V5 @ 1'	Slight?	312	10:45	
~~11/8/19~~				
SH 2 @ Surf	No	272	12:00	
SH 1 @ 1'	N	140	12:05	
SH 2 @ Surf	N	352	12:10	
SH 2 @ 1'	N	140	12:15	
EH 1 @ Surf	N	200	12:20	
EH 1 @ 1'	N	<116	12:25	
WH 1 @ Surf	N	168	12:30	
WH 1 @ 1'	N	140	12:35	
11/8/19				
V1 @ 3'	Y	964	9:10	
V1 @ 3.5' - R	Y	1108	9:15	
V3 @ 1.5' - R	Maybe?	444	9:40	
V4 @ 2' - R	Slight?	400	9:55	
V5 @ 1.5' - R	Maybe?	652	10:00	
WH 2 @ Surf	N	272	10:30	
WH 2 @ 1'	~~Y~~N	652	10:35	
WH 3 @ surf	N	272	10:40	
WH 3 @ 1'	N	~~272~~ 352	10:45	
NH 4 @ Surf	N	200	10:50	
NH 4 @ 1'	N	200	10:55	
NH 5 @ Surf	N	236	~~10~~ 11:00	
NH 5 @ 1'	N	140	11:05	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 11/5/19

Project: Cole State #10

Project Number: 11465 Latitude: 32.39277 Longitude: -103.17335

Sample ID	PID/Odor	Chloride Conc.		GPS
WH2-B Surf	Slight	Less 116	2:15	
WH2-B 1 Foot	NO	1184	2:20	
EH2 Surf	Yes	312	2:25	
EH2 1 foot	Yes	Less 116	2:30	
EH3 Surf	Yes	140	2:35	
EH3 1 foot	Yes	444	2:40	
EH4 Surf	NO	116	2:45	
EH4 1 foot	NO	116	2:50	
EH5 Surfo	NO	Less 116	2:55	
EH5 1 foot	NO	200	3:00	
NH1 Surf	NO	Less 116	3:05	
NH1 1 foot	NO	200	3:10	
V1				
V2 @ 3'				
V3 @ 4'				
V4 @ 3'				
V5 @ 3'				
V4@8	Low			
V4@9	Low			
V1 @5	6.0			
V1@6	5.0			

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Soil Profile

Date: 11/8/19

Project: Cole State #10

Project Number: 11465 Latitude: 32.39277 Longitude: -103.17335

Depth (ft. bgs)	Description
1	Brown Clayey Topsoil w/ Rock
2	
3	
4	Caliche Rock
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

eTECH Environmental & Safety Solutions, Inc.

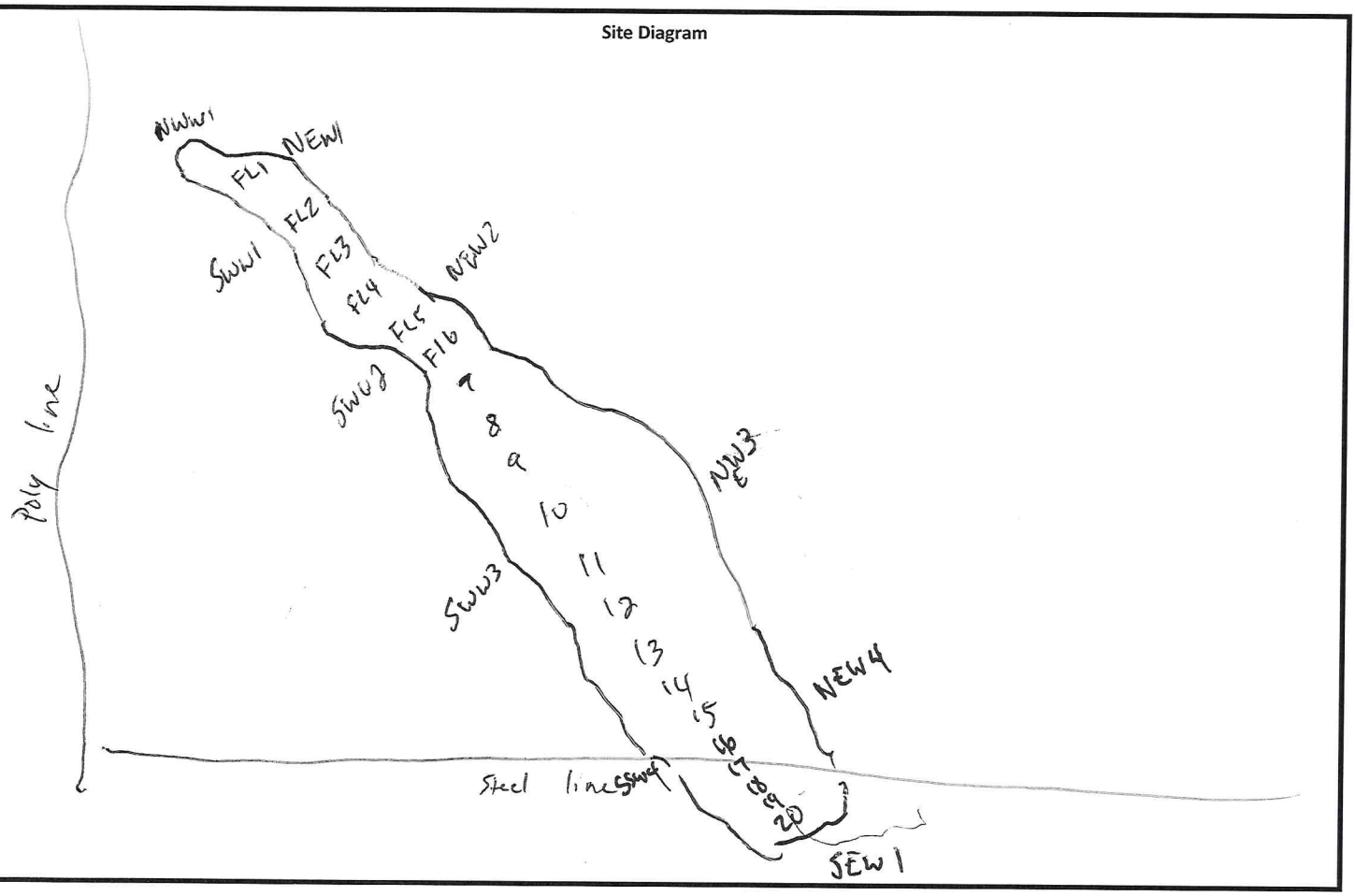
Initial Release Assessment Form

Date: 8/24/20

Project: Cole State #10 Clean Up Level: 10K ~~0~~

Project Number: 11465 Latitude: 32.39287 Longitude: -103.17297

Site Diagram



Notes:

~Length: ~Width: ~Area: ~Depth:

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☑	☐
Necessary Samples Field Screened and on Ice?	☑	☐
Sample and Field Screen Data Entered on Sample Log?	☑	☐
Was horizontal and vertical delineation achieved?	☑	☐

ETECH Environmental & Safety Solutions, Inc.

Sample Log

Date: 8/24/20

Project: Cole State #10

Project Number: 11465 Latitude: 32.39287 Longitude: -103.17297

Sample ID	PID/Odor	Chloride Conc.	GPS
NWW 1	none	>112	
NEW 1	none	>112	
SWW 1	none	>112	
FL 1 @ 4'	light	348	
FL 2 @ 4'	light	184	
FL 3 @ 4'	some	312	
FL 4 @ 4'	light	184	
FL 5 @ 4'	light	860	
FL 6 @ 4'	light	1076	
SWW #2	none	184	
NEW #2	none	276	
FL #7 @ 4'	none	476	
FL #8 @ 4'	none	1244	
FL #9 @ 4'	none	1244	
FL 10 @ 4'	light	1432	
FL 11 @ 4'	light	1336	
FL 12 @ 4'	light	1540	
FL 13 @ 4'	light	1244	
FL 14 @ 4'	light	1156	
FL 15 @ 4	light	928	
SWW 3	none	348	
NEW 3	none	112	
SEW 1	none	>112	
NEW 4	none	198	
SWW 4	none	>112	
FL 16 @ 5	none	1076	
FL 17 @ 5	none	860	
FL 18 @ 5'	none	472	
FL 19 @ 5'	none	388	
FL 20 @ 5	none	>112	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples= SP #1 @ 5b or SW #1b

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

eTECH Environmental & Safety Solutions, Inc.

Remediation Log

Project: Cole State #10

Project Number: 11465 Latitude: 32.39287 Longitude: -103.17297

	Yes	No
Confirmation of Active One Call? One Call No. 20AG120478 8/14 → 9/4	☑	☐
Confirmation of On-Site JSA? 20SE010157 8/3 → 9/25	☑	☐

Date:	Notes	Yds Out	Yds In
	****Begin Remediation Activities****		
	Excavated and stockpile Contaminated Soil		
8/24/20			
8/25/20	Excavated and stockpile Contaminated Soil		
8/26/20	Excavated & stockpile Contaminated Soil		
8/27/20	Loaded Trucks with with Contaminated Soil	260	
9/8/20	Loaded TRK with contaminated Soil	80	
9/9/20	Excavated & stockpile Contaminated Soil		
9/10/20	Excavated & stockpile Contaminated Soil		
9/14/20	Excavated & loaded TRK with Contaminated Soil	300	
9/15/20	Loaded TRK with Clean Top Soil for backfill		156
9/16/20	Loaded TRK with Clean Top Soil for backfill	~~180~~	~~144~~
9/17/20	Loaded TRK with Clean Top Soil for backfill	180	144
9/18/20	Loaded TRK with Clean Top Soil for backfill		84
	****Begin Backfill Activies****		
	****Complete Remediation Activities****		

Total Yds Out	Total Yds In
640	528

	Yes	No
Pictures of Open Excavation Prior to Backfill	☑	☐
Relevant Information in Project Tracker?	☑	☐

Appendix C
Laboratory Analytical Reports

CARDINAL Laboratories

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

November 18, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: COLE STATE 10

Enclosed are the results of analyses for samples received by the laboratory on 11/12/19 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 2 @ SURFACE (H903841-01)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.99**	0.500	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	**34.6**	0.500	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	**44.4**	0.500	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	**106**	1.50	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	**187**	3.00	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1600**	16.0	11/14/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1870**	50.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	**4980**	50.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	**434**	50.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *175 %* *41-142*

Surrogate: 1-Chlorooctadecane *191 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 3 @ SURFACE (H903841-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**5.49**	2.00	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	**77.8**	2.00	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	**103**	2.00	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	**259**	6.00	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	**445**	12.0	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1200**	16.0	11/14/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**11200**	100	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	**45000**	100	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	**6930**	100	11/14/2019	ND					

Surrogate: 1-Chlorooctane *600 %* *41-142*

Surrogate: 1-Chlorooctadecane *884 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 4 @ 1' (H903841-03)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.349**	0.200	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	**9.53**	0.200	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	**20.7**	0.200	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	**59.1**	0.600	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	**89.7**	1.20	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *211 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	11/14/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**846**	50.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	**2880**	50.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	**213**	50.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *156 %* *41-142*

Surrogate: 1-Chlorooctadecane *156 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 5 @ SURFACE (H903841-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**5.15**	5.00	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	**97.3**	10.0	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	**171**	10.0	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	**493**	30.0	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	**767**	55.0	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**15400**	100	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	**54200**	100	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	**8010**	100	11/14/2019	ND					

Surrogate: 1-Chlorooctane *791 %* *41-142*

Surrogate: 1-Chlorooctadecane *1030 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: SH 1 @ SURFACE (H903841-05)

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	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	**0.118**	0.050	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	**0.105**	0.050	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	**0.320**	0.150	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	**0.543**	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *90.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.0 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: SH 1 @ 1' (H903841-06)

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	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	<0.050	0.050	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *99.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *101 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: SH 2 @ SURFACE (H903841-07)

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	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	<0.050	0.050	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.5 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *95.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.2 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: SH 2 @ 1' (H903841-08)

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	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	<0.050	0.050	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	190	94.8	200	1.49	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	188	93.9	200	19.8	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *104 %* *37.6-147*

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Analytical Results For:

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 1 @ SURFACE (H903841-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/14/2019	ND	1.94	97.0	2.00	9.23	
Toluene*	<0.200	0.200	11/14/2019	ND	2.01	101	2.00	9.16	
Ethylbenzene*	<0.200	0.200	11/14/2019	ND	2.06	103	2.00	9.04	
Total Xylenes*	<0.600	0.600	11/14/2019	ND	6.06	101	6.00	9.02	
Total BTEX	<1.20	1.20	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *95.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *101 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 1 @ 1' (H903841-10)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *84.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.0 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 1 @ SURFACE (H903841-11)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	**19.7**	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *88.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.0 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/05/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 1 @ 1' (H903841-12)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	**10.5**	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *89.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.8 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 1 @ 3.5' - R (H903841-13)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/15/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	**0.271**	0.050	11/15/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	**0.809**	0.050	11/15/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	**2.00**	0.150	11/15/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	**3.08**	0.300	11/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *131 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**51.5**	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	**612**	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	**55.2**	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *99.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Analytical Results For:

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JOEL LOWRY
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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 5 @ 1.5' - R (H903841-14)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	**0.084**	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	**0.235**	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	**0.319**	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	**190**	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *83.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.3 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 2 @ SURFACE (H903841-15)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *85.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.0 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 2 @ 1' (H903841-16)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *72.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *74.7 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 3 @ SURFACE (H903841-17)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *92.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.8 %* *37.6-147*

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Analytical Results For:

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P.O. Box 301
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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 3 @ 1' (H903841-18)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.0 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *89.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.4 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 4 @ SURFACE (H903841-19)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *92.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.1 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 4 @ 1' (H903841-20)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *89.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.0 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 5 @ SURFACE (H903841-21)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *89.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.8 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: WH 5 @ 1' (H903841-22)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *88.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 2 @ SURFACE (H903841-23)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *92.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.4 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 2 @ 1' (H903841-24)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *86.6 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *93.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.6 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 3 @ SURFACE (H903841-25)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *90.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.3 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 3 @ 1' (H903841-26)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *90.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.5 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 4 @ SURFACE (H903841-27)

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	11/14/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/14/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *91.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.7 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 4 @ 1' (H903841-28)

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	11/15/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/15/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/15/2019	ND	196	98.2	200	2.10	
DRO >C10-C28*	<10.0	10.0	11/15/2019	ND	192	95.9	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/15/2019	ND					

Surrogate: 1-Chlorooctane *92.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *94.3 %* *37.6-147*

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Analytical Results For:

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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 5 @ SURFACE (H903841-29)

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	11/15/2019	ND	1.84	92.2	2.00	4.62	
Toluene*	<0.050	0.050	11/15/2019	ND	1.90	94.8	2.00	6.68	
Ethylbenzene*	<0.050	0.050	11/15/2019	ND	1.97	98.6	2.00	5.89	
Total Xylenes*	<0.150	0.150	11/15/2019	ND	5.77	96.1	6.00	6.48	
Total BTEX	<0.300	0.300	11/15/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	202	101	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	196	98.2	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *105 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Analytical Results For:

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JOEL LOWRY
P.O. Box 301
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Fax To: (575) 396-1429

Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: EH 5 @ 1' (H903841-30)

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	11/14/2019	ND	1.73	86.5	2.00	8.21	
Toluene*	<0.050	0.050	11/14/2019	ND	1.73	86.6	2.00	8.42	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.76	87.9	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.31	88.5	6.00	8.07	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	202	101	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	196	98.2	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *108 %* *41-142*

Surrogate: 1-Chlorooctadecane *113 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: NH 1 @ SURFACE (H903841-31)

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	11/14/2019	ND	1.73	86.5	2.00	8.21	
Toluene*	<0.050	0.050	11/14/2019	ND	1.73	86.6	2.00	8.42	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.76	87.9	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.31	88.5	6.00	8.07	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	202	101	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	196	98.2	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *105 %* *37.6-147*

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Received:	11/12/2019	Sampling Date:	11/08/2019
Reported:	11/18/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: NH 1 @ 1' (H903841-32)

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	11/14/2019	ND	1.73	86.5	2.00	8.21	
Toluene*	<0.050	0.050	11/14/2019	ND	1.73	86.6	2.00	8.42	
Ethylbenzene*	<0.050	0.050	11/14/2019	ND	1.76	87.9	2.00	8.10	
Total Xylenes*	<0.150	0.150	11/14/2019	ND	5.31	88.5	6.00	8.07	
Total BTEX	<0.300	0.300	11/14/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/15/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/14/2019	ND	202	101	200	2.38	
DRO >C10-C28*	<10.0	10.0	11/14/2019	ND	196	98.2	200	3.97	
EXT DRO >C28-C36	<10.0	10.0	11/14/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	P.O. Box 301	**Company:**	Vanguard/Grizzly
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	(575) 396-2378 **Fax #:** (575) 396-1429	**Address:**	
Project #:	11465 **Project Owner:** Grizzly Energy	**City:**	
Project Name:	Cole State 10	**State:** **Zip:**	
Project Location:	Rural Lea	**Phone #:**	
Sampler Name:	Hayden Scott	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	**DATE**	**TIME**	Chloride	TPH (8015M)	BTEX (8021B)									
H903841																									
1	V2 @ Surf	g	1			x					x		11/5/19	10:10	x	x	x								
2	V3 @ Surf	g	1			x					x		11/5/19	10:20	x	x	x								
3	V4 @ 1'	g	1			x					x		11/5/19	10:35	x	x	x								
4	V5 @ Surf	g	1			x					x		11/5/19	10:40	x	x	x								
5	SH1 @ Surf	g	1			x					x		11/5/19	12:00	x	x	x								
6	SH1 @ 1'	g	1			x					x		11/5/19	12:05	x	x	x								
7	SH2 @ Surf	g	1			x					x		11/5/19	12:10	x	x	x								
8	SH2 @ 1'	g	1			x					x		11/5/19	12:15	x	x	x								
9	EH1 @ Surf	g	1			x					x		11/5/19	12:20	x	x	x								
10	EH1 @ 1'	g	1			x					x		11/5/19	12:25	x	x	x								

Relinquished By:	**Date:** 11/12/19	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 16:06		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	**REMARKS:**
	Time:		Please email results to joel@etechenv.com.

Delivered By: (Circle One) -1.9°C #97 **Sampler - UPS - Bus - Other:** Corrected -1.5°C

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

CHECKED BY: (Initials) TO

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	P.O. Box 301	**Company:**	Vanguard/Grizzly
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	(575) 396-2378 **Fax #:** (575) 396-1429	**Address:**	
Project #:	11465 **Project Owner:** Grizzly Energy	**City:**	
Project Name:	Cole State 10	**State:** **Zip:**	
Project Location:	Rural Lea	**Phone #:**	
Sampler Name:	Hayden Scott	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	**DATE**	**TIME**	Chloride	TPH (8015M)	BTEX (8021B)								
H903841																									
11	WH1 @ Surf	g	1			x					x		11/5/19	12:30	x	x	x								
12	WH1 @ 1'	g	1			x					x		11/5/19	12:35	x	x	x								
13	V1 @ 3.5' - R	g	1			x					x		11/8/19	9:15	x	x	x								
14	V5 @ 1.5' - R	g	1			x					x		11/8/19	10:00	x	x	x								
15	WH2 @ Surf	g	1			x					x		11/8/19	10:30	x	x	x								
16	WH2 @ 1'	g	1			x					x		11/8/19	10:35	x	x	x								
17	WH3 @ Surf	g	1			x					x		11/8/19	10:40	x	x	x								
18	WH3 @ 1'	g	1			x					x		11/8/19	10:45	x	x	x								
19	WH4 @ Surf	g	1			x					x		11/8/19	10:50	x	x	x								
20	WH4 @ 1'	g	1			x					x		11/8/19	10:55	x	x	x								

Relinquished By:	**Date:** 11/12/19	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 16:06		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	**Date:**	**Received By:**	REMARKS:
	Time:		Please email results to joel@etechenv.com.

Delivered By: (Circle One) Sampler - UPS - Bus - Other: -1.9°C #97 Corrected -1.5°C

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

CHECKED BY: (Initials) JO

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	P.O. Box 301	**Company:**	Vanguard/Grizzly
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	(575) 396-2378 **Fax #:** (575) 396-1429	**Address:**	
Project #:	11465 **Project Owner:** Grizzly Energy	**City:**	
Project Name:	Cole State 10	**State:** **Zip:**	
Project Location:	Rural Lea	**Phone #:**	
Sampler Name:	Hayden Scott	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	**DATE**	**TIME**	Chloride	TPH (8015M)	BTEX (8021B)									
H902841																									
21	WH5 @ Surf	g	1			x					x		11/8/19	11:00	x	x	x								
22	WH5 @ 1'	g	1			x					x		11/8/19	11:05	x	x	x								
23	EH2 @ Surf	g	1			x					x		11/8/19	2:25	x	x	x								
24	EH2 @ 1'	g	1			x					x		11/8/19	2:30	x	x	x								
25	EH3 @ Surf	g	1			x					x		11/8/19	2:35	x	x	x								
26	EH3 @ 1'	g	1			x					x		11/8/19	2:40	x	x	x								
27	EH4 @ Surf	g	1			x					x		11/8/19	2:45	x	x	x								
28	EH4 @ 1'	g	1			x					x		11/8/19	2:50	x	x	x								
29	EH5 @ Surf	g	1			x					x		11/8/19	2:55	x	x	x								
30	EH5 @ 1'	g	1			x					x		11/8/19	3:00	x	x	x								

Relinquished By:	**Date:** 11/12/19	**Received By:**	**Phone Result:** ☐ Yes ☐ No	**Add'l Phone #:**
	Time: 16:06		**Fax Result:** ☐ Yes ☐ No	**Add'l Fax #:**
Relinquished By:	**Date:**	**Received By:**	**REMARKS:**	
	Time:			

Delivered By: (Circle One) -1.9° #97 **Sampler - UPS - Bus - Other:** Corrected -1.5°

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

CHECKED BY: (Initials) TO

Please email results to joel@etechenv.com.

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CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Etech Environmental & Safety Solutions, Inc.	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	P.O. Box 301	**Company:**	Vanguard/Grizzly
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	(575) 396-2378 **Fax #:** (575) 396-1429	**Address:**	
Project #:	11465 **Project Owner:** Grizzly Energy	**City:**	
Project Name:	Cole State 10	**State:**	**Zip:**
Project Location:	Rural Lea	**Phone #:**	
Sampler Name:	Hayden Scott	**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	**Sample I.D.**	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	**DATE**	**TIME**	Chloride	TPH (8015M)	BTEX (8021B)									
H903841																									
31	NH1 @ Surf	g	1			x					x		11/8/19	3:05	x	x	x								
32	NH1 @ 1'	g	1			x					x		11/8/19	3:10	x	x	x								

Relinquished By:	**Date:** 11/12/19 **Time:** 16:06	**Received By:**	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	**Date:** **Time:**	**Received By:**	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One)	-1.9° #97	**Sample Condition** Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	**CHECKED BY: (Initials)**
Sampler - UPS - Bus - Other:	Corrected -1.5°		REMARKS: Please email results to joel@etechenv.com.

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CARDINAL Laboratories

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

December 11, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: COLE STATE 10

Enclosed are the results of analyses for samples received by the laboratory on 12/06/19 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/06/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 3 @ 4' (H904096-01)

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	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.215**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**0.702**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**0.917**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1150**	16.0	12/10/2019	ND	400	100	400	7.69	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**35.1**	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**758**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**106**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *114 %* *41-142*

Surrogate: 1-Chlorooctadecane *128 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/06/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 4 @ 3' (H904096-02)

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	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/10/2019	ND	400	100	400	7.69	

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	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**468**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**86.4**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *126 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/06/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY		

Sample ID: V 5 @ 3' (H904096-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	12/10/2019	ND	400	100	400	7.69	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Grizzly Energy, LLC	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	3100 Plains Hwy	**Company:**	Grizzley Operating
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	575-396-2378 **Fax #:** 575-396-1429	**Address:**	4001 Penbrook
Project #:	11465 **Project Owner:** Grizzly Energy, LLC	**City:**	
Project Name:	Cole State #10	**State:** NM **Zip:**	
Project Location:	Rural Lea	**Phone #:**	
Sampler Name:		**Fax #:**	

FOR LAB USE ONLY				MATRIX						PRESERV			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021
H904096-1	V3@4'	G	1			X					X		12/6/19	11:55	X	X	X
2	V4@3'	G	1			X					X		12/6/19	11:10	X		
3	V5@3'	G	1			X					X		12/6/19	10:55	X		

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

Relinquished By:	**Date:** 12/6/19	**Received By:**	
	Time: 15:25		
Relinquished By:	**Date:**	**Received By:**	
	Time:		

Delivered By: (Circle One) 3.1c #97
Sampler - UPS - Bus - Other: Corrected 3.5c

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☑ Yes	☑ Yes	TO
☐ No	☐ No	

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

REMARKS: Email results to joel@etechenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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CARDINAL Laboratories

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

January 06, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: COLE STATE 10

Enclosed are the results of analyses for samples received by the laboratory on 12/31/19 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/31/2019	Sampling Date:	12/23/2019
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Jodi Henson
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V1 @ 4' (H904325-01)

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	01/02/2020	ND	1.95	97.7	2.00	2.10	
Toluene*	**0.070**	0.050	01/02/2020	ND	1.95	97.6	2.00	1.84	
Ethylbenzene*	**0.342**	0.050	01/02/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	**0.591**	0.150	01/02/2020	ND	5.83	97.1	6.00	2.08	
Total BTEX	**1.00**	0.300	01/02/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**528**	16.0	01/02/2020	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**37.9**	10.0	01/03/2020	ND	225	112	200	0.325	
DRO >C10-C28*	**5990**	10.0	01/03/2020	ND	219	110	200	0.765	
EXT DRO >C28-C36	**1450**	10.0	01/03/2020	ND					

Surrogate: 1-Chlorooctane *139 %* *41-142*

Surrogate: 1-Chlorooctadecane *315 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/31/2019	Sampling Date:	12/23/2019
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Jodi Henson
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V2 @ 4' (H904325-02)

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	01/03/2020	ND	1.95	97.7	2.00	2.10	
Toluene*	<0.050	0.050	01/03/2020	ND	1.95	97.6	2.00	1.84	
Ethylbenzene*	**0.155**	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.83	97.1	6.00	2.08	
Total BTEX	<0.300	0.300	01/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	01/02/2020	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**11.7**	10.0	01/03/2020	ND	225	112	200	0.325	
DRO >C10-C28*	**697**	10.0	01/03/2020	ND	219	110	200	0.765	
EXT DRO >C28-C36	**173**	10.0	01/03/2020	ND					

Surrogate: 1-Chlorooctane *134 %* *41-142*

Surrogate: 1-Chlorooctadecane *153 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/31/2019	Sampling Date:	12/23/2019
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Jodi Henson
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V4 @ 4' (H904325-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/03/2020	ND	1.95	97.7	2.00	2.10	
Toluene*	<0.100	0.100	01/03/2020	ND	1.95	97.6	2.00	1.84	
Ethylbenzene*	**0.417**	0.100	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	**0.557**	0.300	01/03/2020	ND	5.83	97.1	6.00	2.08	
Total BTEX	**0.974**	0.600	01/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	01/02/2020	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**50.7**	10.0	01/03/2020	ND	225	112	200	0.325	
DRO >C10-C28*	**6970**	10.0	01/03/2020	ND	219	110	200	0.765	
EXT DRO >C28-C36	**1500**	10.0	01/03/2020	ND					

Surrogate: 1-Chlorooctane *157 %* *41-142*

Surrogate: 1-Chlorooctadecane *326 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/31/2019	Sampling Date:	12/23/2019
Reported:	01/06/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Jodi Henson
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V5 @ 4' (H904325-04)

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	01/03/2020	ND	1.95	97.7	2.00	2.10	
Toluene*	<0.050	0.050	01/03/2020	ND	1.95	97.6	2.00	1.84	
Ethylbenzene*	<0.050	0.050	01/03/2020	ND	2.00	100	2.00	2.09	
Total Xylenes*	<0.150	0.150	01/03/2020	ND	5.83	97.1	6.00	2.08	
Total BTEX	<0.300	0.300	01/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/02/2020	ND	432	108	400	0.00	

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2020	ND	225	112	200	0.325	
DRO >C10-C28*	**654**	10.0	01/03/2020	ND	219	110	200	0.765	
EXT DRO >C28-C36	**156**	10.0	01/03/2020	ND					

Surrogate: 1-Chlorooctane *129 %* *41-142*

Surrogate: 1-Chlorooctadecane *161 %* *37.6-147*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Etech Environmental	**BILL TO**	
Project Manager:	Joel Lowry	P.O. #:	
Address:	3100 Plains Hwy	Company:	
City:	Lovington State: NM Zip: 88260	Attn:	
Phone #:	432-466-4450 Fax #:	Address:	
Project #:	Cole State 10 Project Owner: Grizzly	City:	
Project Name:		State: Zip:	
Project Location:	Lea Co, New Mexico	Phone #:	
Sampler Name:	Miguel Ramirez	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride	TPH	BTEX 8021
H904325																	
1	V1@4'	G	1			X					X		12.23.19	9:00	X	X	X
2	V2@4'	G	1			X					X		12.23.19	9:15	X	X	X
3	V4@4'	G	1			X					X		12.23.19	9:30	X	X	X
4	V5@4'	G	1			X					X		12.23.19	9:45	X	X	X

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

Relinquished By:	Date: 12.31.19	Received By:	
	Time: 9:08		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 0.1°C/0.5°C #97

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

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: email results to joel@etechenv.com
lance@etechenv.com
PM@etechenv.com

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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CARDINAL Laboratories

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

February 24, 2020

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: COLE STATE 10

Enclosed are the results of analyses for samples received by the laboratory on 02/19/20 15:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	02/19/2020	Sampling Date:	02/19/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V 1 @ 5 (H000526-01)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Surrogate: 1-Chlorooctane	*94.9 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*97.6 %*	*42.2-156*

Sample ID: V 1 @ 6 (H000526-02)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Surrogate: 1-Chlorooctane	*93.8 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*97.2 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	02/19/2020	Sampling Date:	02/19/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	COLE STATE 10	Sampling Condition:	Cool & Intact
Project Number:	11465	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY-LEA CO		

Sample ID: V 4 @ 8 (H000526-03)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Surrogate: 1-Chlorooctane	*94.3 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*99.2 %*	*42.2-156*

Sample ID: V 4 @ 9 (H000526-04)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2020	ND	198	99.2	200	0.403	
DRO >C10-C28*	<10.0	10.0	02/21/2020	ND	186	93.0	200	1.55	
EXT DRO >C28-C36	<10.0	10.0	02/21/2020	ND					

Surrogate: 1-Chlorooctane	*93.3 %*	*44.3-144*
Surrogate: 1-Chlorooctadecane	*97.1 %*	*42.2-156*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Etech Environmental & Safety Solutions	**BILL TO**	
Project Manager:	Joel Lowry	**P.O. #:**	
Address:	3100 Plains Hwy	**Company:**	Grizzly
City:	Lovington **State:** NM **Zip:** 88260	**Attn:**	Carmen Pitt
Phone #:	575-396-2378 **Fax #:** 575-396-1429	**Address:**	
Project #:	11465 **Project Owner:**	**City:**	
Project Name:	Cole State #10	**State:** **Zip:**	
Project Location:	Rural lee	**Phone #:**	
Sampler Name:	Hector Villa	**Fax #:**	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride	TPH	BTEX 8021
H000526																	
1	V1@5	G	1			✓					X		1-19-20	9:00		X	
2	V1@6	G	1			✓					X		1-19-20	10:00		X	
3	V4@8	G	1			✓					X		1-19-20	11:00		X	
4	V4@9	G	1			✓					X		1-19-20	12:00		X	

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

Relinquished By:	**Date:** 2/19/20 **Time:** 15:46	**Received By:**	
Relinquished By:	**Date:** **Time:**	**Received By:**	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	3.2c #113	**Sample Condition** Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	**CHECKED BY: (Initials)** BJ

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

REMARKS: Email results to PM@Etechenv.com

Client Contacts

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

FORM-006 R 2.0

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Certificate of Analysis Summary 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County,NM

Date Received in Lab: Tue 08.25.2020 11:15
Report Date: 08.31.2020 16:22
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	670837-001		670837-002		670837-003		670837-004		670837-005		670837-006	
	Field Id:	NWW1		NEW1		SWW1		FL1 @ 4'		FL2 @ 4'		FL3 @ 4'	
	Depth:							4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.24.2020 00:00		08.24.2020 00:00		08.24.2020 00:00		08.24.2020 00:00		08.24.2020 00:00		08.24.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.26.2020 08:30		08.26.2020 08:30		08.26.2020 08:30		08.26.2020 08:30		08.26.2020 08:30		08.26.2020 08:30	
	Analyzed:	08.26.2020 11:35		08.26.2020 11:55		08.26.2020 12:16		08.26.2020 12:36		08.26.2020 12:57		08.26.2020 13:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201
Toluene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	0.0170	0.00201
Ethylbenzene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	0.0600	0.00201
m,p-Xylenes		<0.00398	0.00398	<0.00399	0.00399	<0.00399	0.00399	<0.00396	0.00396	<0.00398	0.00398	0.0785	0.00402
o-Xylene		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	0.0595	0.00201
Total Xylenes		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	0.138	0.00201
Total BTEX		<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	0.215	0.00201
Chloride by EPA 300	***Extracted:***	08.25.2020 16:00		08.25.2020 16:00		08.25.2020 16:00		08.25.2020 16:00		08.25.2020 16:00		08.25.2020 16:00	
	Analyzed:	08.25.2020 22:21		08.25.2020 22:37		08.25.2020 22:42		08.25.2020 22:48		08.25.2020 22:53		08.25.2020 23:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		9.90	5.02	11.7	4.99	63.4	25.2	490	24.9	218	24.8	441	25.2
TPH By SW8015 Mod	***Extracted:***	08.26.2020 12:00		08.26.2020 12:00		08.26.2020 12:00		08.26.2020 12:00		08.26.2020 12:00		08.26.2020 12:00	
	Analyzed:	08.28.2020 23:54		08.28.2020 22:42		08.29.2020 00:18		08.29.2020 00:41		08.29.2020 01:05		08.29.2020 01:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	226	49.9
Diesel Range Organics (DRO)		420	50.0	<50.0	50.0	1260	49.9	<50.0	50.0	228	49.9	1580	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	117	49.9	<50.0	50.0	<49.9	49.9	120	49.9
Total TPH		420	50.0	<50.0	50.0	1380	49.9	<50.0	50.0	228	49.9	1930	49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 670837

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Cole State #10

11465

08.31.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.31.2020

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **670837**
Cole State #10
Project Address: Lea County,NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 670837. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 670837 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NWW1	S	08.24.2020 00:00		670837-001
NEW1	S	08.24.2020 00:00		670837-002
SWW1	S	08.24.2020 00:00		670837-003
FL1 @ 4'	S	08.24.2020 00:00	4 ft	670837-004
FL2 @ 4'	S	08.24.2020 00:00	4 ft	670837-005
FL3 @ 4'	S	08.24.2020 00:00	4 ft	670837-006

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Cole State #10

Project ID: *11465*
Work Order Number(s): *670837*

Report Date: *08.31.2020*
Date Received: *08.25.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3135648 BTEX by EPA 8021B

Lab Sample ID 670837-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 670837-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **NWW1** Matrix: Soil Date Received:08.25.2020 11:15

Lab Sample Id: 670837-001 Date Collected: 08.24.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.25.2020 16:00 Basis: Wet Weight

Seq Number: 3135539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.90**	5.02	mg/kg	08.25.2020 22:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.26.2020 12:00 Basis: Wet Weight

Seq Number: 3135951

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.28.2020 23:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**420**	50.0	mg/kg	08.28.2020 23:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.28.2020 23:54	U	1
Total TPH	PHC635	**420**	50.0	mg/kg	08.28.2020 23:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	08.28.2020 23:54	
o-Terphenyl	84-15-1	108	%	70-130	08.28.2020 23:54	

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Certificate of Analytical Results 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**NWW1**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-001	Date Collected:	08.24.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.26.2020 11:35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.26.2020 11:35	UX	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.26.2020 11:35	UX	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.26.2020 11:35	UX	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.26.2020 11:35	UX	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.26.2020 11:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.26.2020 11:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.26.2020 11:35	
4-Bromofluorobenzene	460-00-4	105	%	70-130	08.26.2020 11:35	

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Certificate of Analytical Results 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **NEW1** Matrix: Soil Date Received:08.25.2020 11:15

Lab Sample Id: 670837-002 Date Collected: 08.24.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 08.25.2020 16:00 Basis: Wet Weight

Seq Number: 3135539

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.7**	4.99	mg/kg	08.25.2020 22:37		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.26.2020 12:00 Basis: Wet Weight

Seq Number: 3135951

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.28.2020 22:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.28.2020 22:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.28.2020 22:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.28.2020 22:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	08.28.2020 22:42	
o-Terphenyl	84-15-1	111	%	70-130	08.28.2020 22:42	

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Certificate of Analytical Results 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**NEW1**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-002	Date Collected:	08.24.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.26.2020 11:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.26.2020 11:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	08.26.2020 11:55	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.26.2020 11:55	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW1**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-003	Date Collected:	08.24.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.25.2020 16:00	Basis:	Wet Weight
Seq Number:	3135539				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**63.4**	25.2	mg/kg	08.25.2020 22:42		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.26.2020 12:00	Basis:	Wet Weight
Seq Number:	3135951				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 00:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1260**	49.9	mg/kg	08.29.2020 00:18		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**117**	49.9	mg/kg	08.29.2020 00:18		1
Total TPH	PHC635	**1380**	49.9	mg/kg	08.29.2020 00:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.29.2020 00:18	
o-Terphenyl	84-15-1	108	%	70-130	08.29.2020 00:18	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW1**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-003	Date Collected:	08.24.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.26.2020 12:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.26.2020 12:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	08.26.2020 12:16	
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.26.2020 12:16	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL1 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-004	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.25.2020 16:00	Basis:	Wet Weight
Seq Number:	3135539				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**490**	24.9	mg/kg	08.25.2020 22:48		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.26.2020 12:00	Basis:	Wet Weight
Seq Number:	3135951				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 00:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.29.2020 00:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.29.2020 00:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.29.2020 00:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-130	08.29.2020 00:41	
o-Terphenyl	84-15-1	113	%	70-130	08.29.2020 00:41	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL1 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-004	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.26.2020 12:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.26.2020 12:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.26.2020 12:36	
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.26.2020 12:36	

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Certificate of Analytical Results 670837

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL2 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-005	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.25.2020 16:00	Basis:	Wet Weight
Seq Number:	3135539				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**218**	24.8	mg/kg	08.25.2020 22:53		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.26.2020 12:00	Basis:	Wet Weight
Seq Number:	3135951				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 01:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	**228**	49.9	mg/kg	08.29.2020 01:05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 01:05	U	1
Total TPH	PHC635	**228**	49.9	mg/kg	08.29.2020 01:05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	08.29.2020 01:05	
o-Terphenyl	84-15-1	110	%	70-130	08.29.2020 01:05	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL2 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-005	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.26.2020 12:57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.26.2020 12:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.26.2020 12:57	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.26.2020 12:57	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL3 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-006	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	08.25.2020 16:00	Basis:	Wet Weight
Seq Number:	3135539				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**441**	25.2	mg/kg	08.25.2020 23:03		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.26.2020 12:00	Basis:	Wet Weight
Seq Number:	3135951				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**226**	49.9	mg/kg	08.29.2020 01:29		1
Diesel Range Organics (DRO)	C10C28DRO	**1580**	49.9	mg/kg	08.29.2020 01:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**120**	49.9	mg/kg	08.29.2020 01:29		1
Total TPH	PHC635	**1930**	49.9	mg/kg	08.29.2020 01:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.29.2020 01:29	
o-Terphenyl	84-15-1	111	%	70-130	08.29.2020 01:29	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL3 @ 4'**	Matrix:	Soil	Date Received:	08.25.2020 11:15
Lab Sample Id:	670837-006	Date Collected:	08.24.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	08.26.2020 08:30	Basis:	Wet Weight
Seq Number:	3135648				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.26.2020 13:17	U	1
Toluene	108-88-3	**0.0170**	0.00201	mg/kg	08.26.2020 13:17		1
Ethylbenzene	100-41-4	**0.0600**	0.00201	mg/kg	08.26.2020 13:17		1
m,p-Xylenes	179601-23-1	**0.0785**	0.00402	mg/kg	08.26.2020 13:17		1
o-Xylene	95-47-6	**0.0595**	0.00201	mg/kg	08.26.2020 13:17		1
Total Xylenes	1330-20-7	**0.138**	0.00201	mg/kg	08.26.2020 13:17		1
Total BTEX		**0.215**	0.00201	mg/kg	08.26.2020 13:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.26.2020 13:17	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.26.2020 13:17	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 670837

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Cole State #10

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135539 — Matrix: Solid — Date Prep: 08.25.2020
MB Sample Id: 7710137-1-BLK — LCS Sample Id: 7710137-1-BKS — LCSD Sample Id: 7710137-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	246	98	90-110	0	20	mg/kg	08.25.2020 21:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135539 — Matrix: Soil — Date Prep: 08.25.2020
Parent Sample Id: 670837-006 — MS Sample Id: 670837-006 S — MSD Sample Id: 670837-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	441	1260	1800	108	1800	108	90-110	0	20	mg/kg	08.25.2020 23:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135539 — Matrix: Soil — Date Prep: 08.25.2020
Parent Sample Id: 670839-011 — MS Sample Id: 670839-011 S — MSD Sample Id: 670839-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	652	250	889	95	893	96	90-110	0	20	mg/kg	08.25.2020 21:55	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135951 — Matrix: Solid — Date Prep: 08.26.2020
MB Sample Id: 7710240-1-BLK — LCS Sample Id: 7710240-1-BKS — LCSD Sample Id: 7710240-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	937	94	975	98	70-130	4	20	mg/kg	08.28.2020 21:51	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1010	101	70-130	0	20	mg/kg	08.28.2020 21:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		94		92		70-130	%	08.28.2020 21:51
o-Terphenyl	102		96		84		70-130	%	08.28.2020 21:51

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135951 — Matrix: Solid — Date Prep: 08.26.2020
MB Sample Id: 7710240-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.28.2020 21:24	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 670837

Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135951 — Matrix: Soil — Date Prep: 08.26.2020
Parent Sample Id: 670837-002 — MS Sample Id: 670837-002 S — MSD Sample Id: 670837-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	1060	106	1090	109	70-130	3	20	mg/kg	08.28.2020 23:06	
Diesel Range Organics (DRO)	<49.9	998	1180	118	1210	121	70-130	3	20	mg/kg	08.28.2020 23:06	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		117		70-130	%	08.28.2020 23:06
o-Terphenyl	116		117		70-130	%	08.28.2020 23:06

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135648 — Matrix: Solid — Date Prep: 08.26.2020
MB Sample Id: 7710249-1-BLK — LCS Sample Id: 7710249-1-BKS — LCSD Sample Id: 7710249-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0914	91	0.0864	86	70-130	6	35	mg/kg	08.26.2020 09:14	
Toluene	<0.00200	0.100	0.0836	84	0.0816	82	70-130	2	35	mg/kg	08.26.2020 09:14	
Ethylbenzene	<0.00200	0.100	0.0856	86	0.0851	85	70-130	1	35	mg/kg	08.26.2020 09:14	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.175	88	70-130	2	35	mg/kg	08.26.2020 09:14	
o-Xylene	<0.00200	0.100	0.0862	86	0.0872	87	70-130	1	35	mg/kg	08.26.2020 09:14	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		97		70-130	%	08.26.2020 09:14
4-Bromofluorobenzene	97		104		106		70-130	%	08.26.2020 09:14

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135648 — Matrix: Soil — Date Prep: 08.26.2020
Parent Sample Id: 670837-001 — MS Sample Id: 670837-001 S — MSD Sample Id: 670837-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0698	70	0.0741	74	70-130	6	35	mg/kg	08.26.2020 09:55	
Toluene	<0.00200	0.0998	0.0652	65	0.0670	67	70-130	3	35	mg/kg	08.26.2020 09:55	X
Ethylbenzene	<0.00200	0.0998	0.0628	63	0.0608	61	70-130	3	35	mg/kg	08.26.2020 09:55	X
m,p-Xylenes	<0.00399	0.200	0.127	64	0.120	60	70-130	6	35	mg/kg	08.26.2020 09:55	X
o-Xylene	<0.00200	0.0998	0.0633	63	0.0607	61	70-130	4	35	mg/kg	08.26.2020 09:55	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	08.26.2020 09:55
4-Bromofluorobenzene	98		112		70-130	%	08.26.2020 09:55

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Chain of Custody

Work Order No: 670837

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Grizzley
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cole State #10	Turn Around	
Project Number:	11465	Routine:	☑
Project Location	Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	0.7/0.5	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	IR6	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No N/A	Total Containers:		

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
NWW1	Soil	8.24.20		-	1	X	X	X		
NEW 1	Soil	8.24.20		-	1	X	X	X		
SWW 1	Soil	8.24.20		-	1	X	X	X		
FL 1@4'	Soil	8.24.20		4'	1	X	X	X		
FL2@4'	Soil	8.24.20		4'	1	X	X	X		
FL3@4'	Soil	8.24.20		4'	1	X	X	X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Teresa Arwendaro	8/24/20	2 Teresa Arwendaro		8/25/20 1115
3			4		
5			6		

ORIGIN ID:HOBR
MAIL SERVICES ETC
*
400B N GRIMES
HOBBS, NM 88240
UNITED STATES US
TO XENCO HOLD FOR PICKUP
XENCO HOLD FOR PICKUP
3600 S COUNTY RD
MIDLAND TX 79706
(432) 704-5440
INV:
PO:
DEPT:
REF:
FedEx
Express
TUE - 25 AUG 4:30P
STANDARD OVERNIGHT
79706
TX-US LBB
TRK#
0201
9061 5134 8308
41 MAFA
ACTWGT: 20.00 LB MAN
CAD: 0103952/CAFE3313
DIMS: 17x16x12 IN
BILL RECIPIENT

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.25.2020 11.15.00 AM

Work Order #: 670837

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in buk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.26.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.26.2020
Jessica Kramer

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Certificate of Analysis Summary 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Thu 08.27.2020 11:40
Report Date: 08.31.2020 17:14
Project Manager: Jessica Kramer

Analysis Requested		671116-001		671116-002		671116-003		671116-004		671116-005		671116-006	
	Field Id:	FL4 @4'		FL5@4'		FL6 @4'		SWW #2		NEW #2		FL7 @ 4'	
	Depth:	4- ft		4- ft		4- ft						4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.25.2020 00:00		08.25.2020 00:00		08.25.2020 00:00		08.25.2020 00:00		08.25.2020 00:00		08.25.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	08.29.2020 14:30		08.29.2020 14:30		08.29.2020 14:30		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00	
	Analyzed:	08.29.2020 22:36		08.29.2020 22:57		08.29.2020 23:17		08.29.2020 09:47		08.29.2020 10:08		08.29.2020 05:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	<0.00397	0.00397	<0.00398	0.00398	<0.00401	0.00401	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00200	0.00200	<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	08.27.2020 17:35		08.27.2020 17:35		08.27.2020 17:35		08.27.2020 17:35		08.27.2020 17:35		08.27.2020 17:35	
	Analyzed:	08.28.2020 00:19		08.28.2020 00:24		08.28.2020 00:29		08.28.2020 00:35		08.28.2020 00:40		08.28.2020 00:45	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		93.6	25.1	1090	24.9	1420	24.9	9.19	5.04	72.5	25.0	864	25.1
TPH By SW8015 Mod	***Extracted:***	08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00	
	Analyzed:	08.29.2020 04:36		08.29.2020 04:56		08.29.2020 05:16		08.29.2020 05:36		08.29.2020 05:55		08.29.2020 06:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		1040	49.9	621	49.8	483	50.0	<50.0	50.0	<49.9	49.9	156	49.9
Motor Oil Range Hydrocarbons (MRO)		104	49.9	59.0	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		1140	49.9	680	49.8	483	50.0	<50.0	50.0	<49.9	49.9	156	49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Thu 08.27.2020 11:40
Report Date: 08.31.2020 17:14
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	671116-007		671116-008		671116-009		671116-010		671116-011		671116-012	
	Field Id:	FL8 @ 4'		FL9 @ 4'		FL10 @ 4'		FL11 @ 4'		FL12 @ 4'		FL13 @4'	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.25.2020 00:00		08.25.2020 00:00		08.25.2020 00:00		08.26.2020 00:00		08.26.2020 00:00		08.26.2020 00:00	
BTEX by EPA 8021B	Extracted:	08.28.2020 16:00		08.28.2020 16:00		08.29.2020 15:00		08.29.2020 15:00		08.29.2020 15:00		08.28.2020 16:00	
	Analyzed:	08.29.2020 10:28		08.29.2020 10:49		08.30.2020 04:46		08.30.2020 05:07		08.30.2020 05:27		08.29.2020 11:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Toluene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Ethylbenzene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
m,p-Xylenes		<0.00398	0.00398	<0.00397	0.00397	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401	<0.00396	0.00396
o-Xylene		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total Xylenes		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Total BTEX		<0.00199	0.00199	<0.00198	0.00198	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200	<0.00198	0.00198
Chloride by EPA 300	Extracted:	08.27.2020 17:35		08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50	
	Analyzed:	08.28.2020 00:50		08.28.2020 01:22		08.28.2020 01:38		08.28.2020 01:43		08.28.2020 01:48		08.28.2020 01:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1990	25.1	628	5.04	1690	24.9	1630	25.0	1720	50.1	1370	25.2
TPH By SW8015 Mod	Extracted:	08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00	
	Analyzed:	08.29.2020 06:35		08.29.2020 07:14		08.29.2020 07:34		08.29.2020 07:54		08.29.2020 08:14		08.29.2020 08:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<49.8	49.8	<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		137	50.0	71.9	49.8	958	50.0	1250	49.9	1980	50.0	141	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.8	49.8	89.1	50.0	94.1	49.9	119	50.0	<49.9	49.9
Total TPH		137	50.0	71.9	49.8	1050	50.0	1340	49.9	2100	50.0	141	49.9

BRL - Below Reporting Limit

Jessica Kramer

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Certificate of Analysis Summary 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County, NM

Date Received in Lab: Thu 08.27.2020 11:40
Report Date: 08.31.2020 17:14
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	671116-013		671116-014		671116-015		671116-016		671116-017	
	Field Id:	FL14 @4'		FL15 @4'		SWW3		NEW3		SEW1	
	Depth:	4- ft		4- ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	08.26.2020 00:00		08.26.2020 00:00		08.26.2020 00:00		08.26.2020 00:00		08.26.2020 00:00	
BTEX by EPA 8021B	Extracted:	08.29.2020 15:00		08.29.2020 15:00		08.29.2020 14:30		08.29.2020 14:30		08.29.2020 14:30	
	Analyzed:	08.30.2020 05:48		08.30.2020 06:09		08.29.2020 17:59		08.29.2020 18:20		08.29.2020 18:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00199	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Toluene		<0.00198	0.00198	0.00469	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	0.0433	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
m,p-Xylenes		<0.00397	0.00397	0.0700	0.00398	<0.00402	0.00402	<0.00398	0.00398	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	0.0435	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	0.114	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	0.161	0.00199	<0.00201	0.00201	<0.00199	0.00199	<0.00199	0.00199
Chloride by EPA 300	Extracted:	08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50		08.27.2020 17:50	
	Analyzed:	08.28.2020 02:09		08.28.2020 02:15		08.28.2020 08:35		08.28.2020 02:25		08.28.2020 02:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1310	24.9	1190	24.8	11.3	4.98	262	25.2	9.78	5.02
TPH By SW8015 Mod	Extracted:	08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00		08.28.2020 16:00	
	Analyzed:	08.29.2020 08:53		08.29.2020 09:13		08.29.2020 09:33		08.29.2020 09:52		08.29.2020 10:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	69.5	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Diesel Range Organics (DRO)		300	49.9	1060	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	78.2	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9
Total TPH		300	49.9	1210	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 671116

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Cole State #10

11465

08.31.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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08.31.2020

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **671116**
Cole State #10
Project Address: Lea County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 671116. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 671116 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL4 @4'	S	08.25.2020 00:00	4 ft	671116-001
FL5@4'	S	08.25.2020 00:00	4 ft	671116-002
FL6 @4'	S	08.25.2020 00:00	4 ft	671116-003
SWW #2	S	08.25.2020 00:00	ft	671116-004
NEW #2	S	08.25.2020 00:00	ft	671116-005
FL7 @ 4'	S	08.25.2020 00:00	4 ft	671116-006
FL8 @ 4'	S	08.25.2020 00:00	4 ft	671116-007
FL9 @ 4'	S	08.25.2020 00:00	4 ft	671116-008
FL10 @ 4'	S	08.25.2020 00:00	4 ft	671116-009
FL11 @ 4'	S	08.26.2020 00:00	4 ft	671116-010
FL12 @ 4'	S	08.26.2020 00:00	4 ft	671116-011
FL13 @4'	S	08.26.2020 00:00	4 ft	671116-012
FL14 @4'	S	08.26.2020 00:00	4 ft	671116-013
FL15 @4'	S	08.26.2020 00:00	4 ft	671116-014
SWW3	S	08.26.2020 00:00	ft	671116-015
NEW3	S	08.26.2020 00:00	ft	671116-016
SEW1	S	08.26.2020 00:00	ft	671116-017

CASE NARRATIVE

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Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Cole State #10

Project ID: *11465*
Work Order Number(s): *671116*

Report Date: *08.31.2020*
Date Received: *08.27.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3135897 BTEX by EPA 8021B

Lab Sample ID 671116-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 671116-004, -005, -006, -007, -008, -012.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3135908 BTEX by EPA 8021B

Lab Sample ID 671116-009 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 671116-009, -010, -011, -013, -014.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL4 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-001	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**93.6**	25.1	mg/kg	08.28.2020 00:19		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 04:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1040**	49.9	mg/kg	08.29.2020 04:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**104**	49.9	mg/kg	08.29.2020 04:36		1
Total TPH	PHC635	**1140**	49.9	mg/kg	08.29.2020 04:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	08.29.2020 04:36	
o-Terphenyl	84-15-1	119	%	70-130	08.29.2020 04:36	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL4 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-001	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.29.2020 22:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.29.2020 22:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.29.2020 22:36	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.29.2020 22:36	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL5@4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-002	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1090**	24.9	mg/kg	08.28.2020 00:24		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.29.2020 04:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**621**	49.8	mg/kg	08.29.2020 04:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**59.0**	49.8	mg/kg	08.29.2020 04:56		1
Total TPH	PHC635	**680**	49.8	mg/kg	08.29.2020 04:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	08.29.2020 04:56	
o-Terphenyl	84-15-1	112	%	70-130	08.29.2020 04:56	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL5@4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-002	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.29.2020 22:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.29.2020 22:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	08.29.2020 22:57	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.29.2020 22:57	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL6 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-003	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1420**	24.9	mg/kg	08.28.2020 00:29		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 05:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**483**	50.0	mg/kg	08.29.2020 05:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.29.2020 05:16	U	1
Total TPH	PHC635	**483**	50.0	mg/kg	08.29.2020 05:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	08.29.2020 05:16	
o-Terphenyl	84-15-1	110	%	70-130	08.29.2020 05:16	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL6 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-003	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.29.2020 23:17	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.29.2020 23:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.29.2020 23:17	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.29.2020 23:17	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW #2**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-004	Date Collected:	08.25.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.19**	5.04	mg/kg	08.28.2020 00:35		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 05:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.29.2020 05:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.29.2020 05:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.29.2020 05:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	08.29.2020 05:36	
o-Terphenyl	84-15-1	104	%	70-130	08.29.2020 05:36	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW #2**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-004	Date Collected:	08.25.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.29.2020 09:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.29.2020 09:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.29.2020 09:47	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.29.2020 09:47	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **NEW #2** Matrix: Soil Date Received:08.27.2020 11:40

Lab Sample Id: 671116-005 Date Collected: 08.25.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.27.2020 17:35 Basis: Wet Weight

Seq Number: 3135777

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**72.5**	25.0	mg/kg	08.28.2020 00:40		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.28.2020 16:00 Basis: Wet Weight

Seq Number: 3135950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 05:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.29.2020 05:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 05:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.29.2020 05:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-130	08.29.2020 05:55	
o-Terphenyl	84-15-1	90	%	70-130	08.29.2020 05:55	

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Cole State #10

Sample Id:	**NEW #2**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-005	Date Collected:	08.25.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.29.2020 10:08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.29.2020 10:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	08.29.2020 10:08	
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.29.2020 10:08	

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Cole State #10

Sample Id:	**FL7 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-006	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**864**	25.1	mg/kg	08.28.2020 00:45		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 06:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	**156**	49.9	mg/kg	08.29.2020 06:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 06:15	U	1
Total TPH	PHC635	**156**	49.9	mg/kg	08.29.2020 06:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	08.29.2020 06:15	
o-Terphenyl	84-15-1	96	%	70-130	08.29.2020 06:15	

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Cole State #10

Sample Id:	**FL7 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-006	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.29.2020 05:21	UX	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.29.2020 05:21	UX	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.29.2020 05:21	UX	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.29.2020 05:21	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.29.2020 05:21	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.29.2020 05:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.29.2020 05:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.29.2020 05:21	
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.29.2020 05:21	

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Cole State #10

Sample Id:	**FL8 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-007	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:35	Basis:	Wet Weight
Seq Number:	3135777				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1990**	25.1	mg/kg	08.28.2020 00:50		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 06:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	**137**	50.0	mg/kg	08.29.2020 06:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.29.2020 06:35	U	1
Total TPH	PHC635	**137**	50.0	mg/kg	08.29.2020 06:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	08.29.2020 06:35	
o-Terphenyl	84-15-1	103	%	70-130	08.29.2020 06:35	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL8 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-007	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.29.2020 10:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.29.2020 10:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.29.2020 10:28	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.29.2020 10:28	

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Cole State #10

Sample Id:	**FL9 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-008	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**628**	5.04	mg/kg	08.28.2020 01:22		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.29.2020 07:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	**71.9**	49.8	mg/kg	08.29.2020 07:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.29.2020 07:14	U	1
Total TPH	PHC635	**71.9**	49.8	mg/kg	08.29.2020 07:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	08.29.2020 07:14	
o-Terphenyl	84-15-1	101	%	70-130	08.29.2020 07:14	

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Cole State #10

Sample Id:	**FL9 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-008	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.29.2020 10:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.29.2020 10:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.29.2020 10:49	
4-Bromofluorobenzene	460-00-4	117	%	70-130	08.29.2020 10:49	

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Cole State #10

Sample Id:	**FL10 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-009	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1690**	24.9	mg/kg	08.28.2020 01:38		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 07:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**958**	50.0	mg/kg	08.29.2020 07:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**89.1**	50.0	mg/kg	08.29.2020 07:34		1
Total TPH	PHC635	**1050**	50.0	mg/kg	08.29.2020 07:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	08.29.2020 07:34	
o-Terphenyl	84-15-1	115	%	70-130	08.29.2020 07:34	

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Cole State #10

Sample Id:	**FL10 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-009	Date Collected:	08.25.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3135908				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.2020 04:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.2020 04:46	UX	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.2020 04:46	UX	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.30.2020 04:46	UX	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.2020 04:46	UX	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.2020 04:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.2020 04:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.30.2020 04:46	
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.30.2020 04:46	

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Cole State #10

Sample Id:	**FL11 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-010	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1630**	25.0	mg/kg	08.28.2020 01:43		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 07:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1250**	49.9	mg/kg	08.29.2020 07:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**94.1**	49.9	mg/kg	08.29.2020 07:54		1
Total TPH	PHC635	**1340**	49.9	mg/kg	08.29.2020 07:54		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	08.29.2020 07:54	
o-Terphenyl	84-15-1	127	%	70-130	08.29.2020 07:54	

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Cole State #10

Sample Id:	**FL11 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-010	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3135908				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.30.2020 05:07	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.30.2020 05:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	08.30.2020 05:07	
4-Bromofluorobenzene	460-00-4	127	%	70-130	08.30.2020 05:07	

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Sample Id:	**FL12 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-011	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1720**	50.1	mg/kg	08.28.2020 01:48		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 08:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1980**	50.0	mg/kg	08.29.2020 08:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**119**	50.0	mg/kg	08.29.2020 08:14		1
Total TPH	PHC635	**2100**	50.0	mg/kg	08.29.2020 08:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	08.29.2020 08:14	
o-Terphenyl	84-15-1	123	%	70-130	08.29.2020 08:14	

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Cole State #10

Sample Id:	**FL12 @ 4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-011	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3135908				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	08.30.2020 05:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.30.2020 05:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	08.30.2020 05:27	
4-Bromofluorobenzene	460-00-4	128	%	70-130	08.30.2020 05:27	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL13 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-012	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1370**	25.2	mg/kg	08.28.2020 01:54		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 08:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**141**	49.9	mg/kg	08.29.2020 08:34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 08:34	U	1
Total TPH	PHC635	**141**	49.9	mg/kg	08.29.2020 08:34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	08.29.2020 08:34	
o-Terphenyl	84-15-1	100	%	70-130	08.29.2020 08:34	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL13 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-012	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135897				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.29.2020 11:10	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.29.2020 11:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.29.2020 11:10	
4-Bromofluorobenzene	460-00-4	112	%	70-130	08.29.2020 11:10	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL14 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-013	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1310**	24.9	mg/kg	08.28.2020 02:09		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 08:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	**300**	49.9	mg/kg	08.29.2020 08:53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 08:53	U	1
Total TPH	PHC635	**300**	49.9	mg/kg	08.29.2020 08:53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	08.29.2020 08:53	
o-Terphenyl	84-15-1	107	%	70-130	08.29.2020 08:53	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL14 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-013	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3135908				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.30.2020 05:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.30.2020 05:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.30.2020 05:48	
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.30.2020 05:48	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL15 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-014	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	08.27.2020 17:50	Basis:	Wet Weight
Seq Number:	3135788				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1190**	24.8	mg/kg	08.28.2020 02:15		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	08.28.2020 16:00	Basis:	Wet Weight
Seq Number:	3135950				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**69.5**	50.0	mg/kg	08.29.2020 09:13		1
Diesel Range Organics (DRO)	C10C28DRO	**1060**	50.0	mg/kg	08.29.2020 09:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**78.2**	50.0	mg/kg	08.29.2020 09:13		1
Total TPH	PHC635	**1210**	50.0	mg/kg	08.29.2020 09:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	08.29.2020 09:13	
o-Terphenyl	84-15-1	116	%	70-130	08.29.2020 09:13	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL15 @4'**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-014	Date Collected:	08.26.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 15:00	Basis:	Wet Weight
Seq Number:	3135908				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.30.2020 06:09	U	1
Toluene	108-88-3	**0.00469**	0.00199	mg/kg	08.30.2020 06:09		1
Ethylbenzene	100-41-4	**0.0433**	0.00199	mg/kg	08.30.2020 06:09		1
m,p-Xylenes	179601-23-1	**0.0700**	0.00398	mg/kg	08.30.2020 06:09		1
o-Xylene	95-47-6	**0.0435**	0.00199	mg/kg	08.30.2020 06:09		1
Total Xylenes	1330-20-7	**0.114**	0.00199	mg/kg	08.30.2020 06:09		1
Total BTEX		**0.161**	0.00199	mg/kg	08.30.2020 06:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.30.2020 06:09	
4-Bromofluorobenzene	460-00-4	116	%	70-130	08.30.2020 06:09	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **SWW3** Matrix: Soil Date Received:08.27.2020 11:40

Lab Sample Id: 671116-015 Date Collected: 08.26.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.27.2020 17:50 Basis: Wet Weight

Seq Number: 3135788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.3**	4.98	mg/kg	08.28.2020 08:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.28.2020 16:00 Basis: Wet Weight

Seq Number: 3135950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.29.2020 09:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.29.2020 09:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.29.2020 09:33	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.29.2020 09:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-130	08.29.2020 09:33	
o-Terphenyl	84-15-1	86	%	70-130	08.29.2020 09:33	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW3**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-015	Date Collected:	08.26.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.29.2020 17:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.29.2020 17:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	70-130	08.29.2020 17:59	
1,4-Difluorobenzene	540-36-3	95	%	70-130	08.29.2020 17:59	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **NEW3** Matrix: Soil Date Received:08.27.2020 11:40

Lab Sample Id: 671116-016 Date Collected: 08.26.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.27.2020 17:50 Basis: Wet Weight

Seq Number: 3135788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**262**	25.2	mg/kg	08.28.2020 02:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.28.2020 16:00 Basis: Wet Weight

Seq Number: 3135950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 09:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.29.2020 09:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 09:52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.29.2020 09:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	08.29.2020 09:52	
o-Terphenyl	84-15-1	90	%	70-130	08.29.2020 09:52	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**NEW3**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-016	Date Collected:	08.26.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.29.2020 18:20	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.29.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.29.2020 18:20	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.29.2020 18:20	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id: **SEW1** Matrix: Soil Date Received:08.27.2020 11:40

Lab Sample Id: 671116-017 Date Collected: 08.26.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC % Moisture:

Analyst: SPC Date Prep: 08.27.2020 17:50 Basis: Wet Weight

Seq Number: 3135788

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.78**	5.02	mg/kg	08.28.2020 02:30		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM % Moisture:

Analyst: ARM Date Prep: 08.28.2020 16:00 Basis: Wet Weight

Seq Number: 3135950

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.29.2020 10:12	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.29.2020 10:12	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.29.2020 10:12	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.29.2020 10:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	08.29.2020 10:12	
o-Terphenyl	84-15-1	92	%	70-130	08.29.2020 10:12	

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Certificate of Analytical Results 671116

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SEW1**	Matrix:	Soil	Date Received:	08.27.2020 11:40
Lab Sample Id:	671116-017	Date Collected:	08.26.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	AMF			% Moisture:	
Analyst:	AMF	Date Prep:	08.29.2020 14:30	Basis:	Wet Weight
Seq Number:	3135907				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.29.2020 18:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.29.2020 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.29.2020 18:41	
4-Bromofluorobenzene	460-00-4	121	%	70-130	08.29.2020 18:41	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 671116

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Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135777 — Matrix: Solid — Date Prep: 08.27.2020
MB Sample Id: 7710321-1-BLK — LCS Sample Id: 7710321-1-BKS — LCSD Sample Id: 7710321-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	257	103	250	100	90-110	3	20	mg/kg	08.27.2020 22:18	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135788 — Matrix: Solid — Date Prep: 08.27.2020
MB Sample Id: 7710323-1-BLK — LCS Sample Id: 7710323-1-BKS — LCSD Sample Id: 7710323-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	250	100	248	99	90-110	1	20	mg/kg	08.28.2020 01:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135777 — Matrix: Soil — Date Prep: 08.27.2020
Parent Sample Id: 671070-005 — MS Sample Id: 671070-005 S — MSD Sample Id: 671070-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5070	2490	7730	107	7740	107	90-110	0	20	mg/kg	08.27.2020 22:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135777 — Matrix: Soil — Date Prep: 08.27.2020
Parent Sample Id: 671103-002 — MS Sample Id: 671103-002 S — MSD Sample Id: 671103-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8190	2480	10900	109	10900	109	90-110	0	20	mg/kg	08.28.2020 11:23	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135788 — Matrix: Soil — Date Prep: 08.27.2020
Parent Sample Id: 671116-008 — MS Sample Id: 671116-008 S — MSD Sample Id: 671116-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	628	252	855	90	857	91	90-110	0	20	mg/kg	08.28.2020 01:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3135788 — Matrix: Soil — Date Prep: 08.27.2020
Parent Sample Id: 671123-001 — MS Sample Id: 671123-001 S — MSD Sample Id: 671123-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	3450	1250	4770	106	4780	106	90-110	0	20	mg/kg	08.28.2020 02:41	

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 671116

Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135950 — Matrix: Solid — Date Prep: 08.28.2020
MB Sample Id: 7710460-1-BLK — LCS Sample Id: 7710460-1-BKS — LCSD Sample Id: 7710460-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1060	106	70-130	4	20	mg/kg	08.29.2020 02:18	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	1110	111	70-130	2	20	mg/kg	08.29.2020 02:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		121		118		70-130	%	08.29.2020 02:18
o-Terphenyl	119		124		117		70-130	%	08.29.2020 02:18

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135950 — Matrix: Solid — Date Prep: 08.28.2020
MB Sample Id: 7710460-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.29.2020 01:58	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3135950 — Matrix: Soil — Date Prep: 08.28.2020
Parent Sample Id: 671123-001 — MS Sample Id: 671123-001 S — MSD Sample Id: 671123-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	884	89	901	90	70-130	2	20	mg/kg	08.29.2020 03:17	
Diesel Range Organics (DRO)	<49.9	997	965	97	980	98	70-130	2	20	mg/kg	08.29.2020 03:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		109		70-130	%	08.29.2020 03:17
o-Terphenyl	109		111		70-130	%	08.29.2020 03:17

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135897 — Matrix: Solid — Date Prep: 08.28.2020
MB Sample Id: 7710439-1-BLK — LCS Sample Id: 7710439-1-BKS — LCSD Sample Id: 7710439-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0918	92	0.0864	86	70-130	6	35	mg/kg	08.29.2020 03:01	
Toluene	<0.00200	0.100	0.0807	81	0.0767	77	70-130	5	35	mg/kg	08.29.2020 03:01	
Ethylbenzene	<0.00200	0.100	0.0803	80	0.0757	76	70-130	6	35	mg/kg	08.29.2020 03:01	
m,p-Xylenes	<0.00400	0.200	0.158	79	0.149	75	70-130	6	35	mg/kg	08.29.2020 03:01	
o-Xylene	<0.00200	0.100	0.0822	82	0.0778	78	70-130	6	35	mg/kg	08.29.2020 03:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		102		100		70-130	%	08.29.2020 03:01
4-Bromofluorobenzene	102		102		99		70-130	%	08.29.2020 03:01

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 671116

Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135907 — Matrix: Solid — Date Prep: 08.29.2020
MB Sample Id: 7710446-1-BLK — LCS Sample Id: 7710446-1-BKS — LCSD Sample Id: 7710446-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.100	100	70-130	2	35	mg/kg	08.29.2020 15:01	
Toluene	<0.00200	0.100	0.0887	89	0.0920	92	70-130	4	35	mg/kg	08.29.2020 15:01	
Ethylbenzene	<0.00200	0.100	0.0881	88	0.0951	95	70-130	8	35	mg/kg	08.29.2020 15:01	
m,p-Xylenes	<0.00400	0.200	0.172	86	0.190	95	70-130	10	35	mg/kg	08.29.2020 15:01	
o-Xylene	<0.00200	0.100	0.0862	86	0.0947	95	70-130	9	35	mg/kg	08.29.2020 15:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		102		100		70-130	%	08.29.2020 15:01
4-Bromofluorobenzene	88		96		109		70-130	%	08.29.2020 15:01

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135908 — Matrix: Solid — Date Prep: 08.29.2020
MB Sample Id: 7710447-1-BLK — LCS Sample Id: 7710447-1-BKS — LCSD Sample Id: 7710447-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0899	90	0.0891	89	70-130	1	35	mg/kg	08.30.2020 02:24	
Toluene	<0.00200	0.100	0.0845	85	0.0836	84	70-130	1	35	mg/kg	08.30.2020 02:24	
Ethylbenzene	<0.00200	0.100	0.0874	87	0.0867	87	70-130	1	35	mg/kg	08.30.2020 02:24	
m,p-Xylenes	<0.00400	0.200	0.177	89	0.177	89	70-130	0	35	mg/kg	08.30.2020 02:24	
o-Xylene	<0.00200	0.100	0.0913	91	0.0915	92	70-130	0	35	mg/kg	08.30.2020 02:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		99		70-130	%	08.30.2020 02:24
4-Bromofluorobenzene	101		117		118		70-130	%	08.30.2020 02:24

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3135897 — Matrix: Soil — Date Prep: 08.28.2020
Parent Sample Id: 671116-006 — MS Sample Id: 671116-006 S — MSD Sample Id: 671116-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0625	63	0.0637	64	70-130	2	35	mg/kg	08.29.2020 03:42	X
Toluene	<0.00198	0.0992	0.0541	55	0.0545	55	70-130	1	35	mg/kg	08.29.2020 03:42	X
Ethylbenzene	<0.00198	0.0992	0.0493	50	0.0490	49	70-130	1	35	mg/kg	08.29.2020 03:42	X
m,p-Xylenes	<0.00397	0.198	0.0947	48	0.0876	44	70-130	8	35	mg/kg	08.29.2020 03:42	X
o-Xylene	<0.00198	0.0992	0.0528	53	0.0527	53	70-130	0	35	mg/kg	08.29.2020 03:42	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		101		70-130	%	08.29.2020 03:42
4-Bromofluorobenzene	103		101		70-130	%	08.29.2020 03:42

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 671116

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Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3135907 Matrix: Soil Date Prep: 08.29.2020
Parent Sample Id: 671095-004 MS Sample Id: 671095-004 S MSD Sample Id: 671095-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0577	58	0.0603	61	70-130	4	35	mg/kg	08.29.2020 15:43	X
Toluene	<0.00200	0.0998	0.0514	52	0.0551	55	70-130	7	35	mg/kg	08.29.2020 15:43	X
Ethylbenzene	<0.00200	0.0998	0.0502	50	0.0551	55	70-130	9	35	mg/kg	08.29.2020 15:43	X
m,p-Xylenes	<0.00399	0.200	0.103	52	0.111	56	70-130	7	35	mg/kg	08.29.2020 15:43	X
o-Xylene	<0.00200	0.0998	0.0532	53	0.0576	58	70-130	8	35	mg/kg	08.29.2020 15:43	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		102		70-130	%	08.29.2020 15:43
4-Bromofluorobenzene	107		112		70-130	%	08.29.2020 15:43

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3135908 Matrix: Soil Date Prep: 08.29.2020
Parent Sample Id: 671116-009 MS Sample Id: 671116-009 S MSD Sample Id: 671116-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0768	77	0.0729	73	70-130	5	35	mg/kg	08.30.2020 03:05	
Toluene	<0.00198	0.0992	0.0602	61	0.0598	60	70-130	1	35	mg/kg	08.30.2020 03:05	X
Ethylbenzene	<0.00198	0.0992	0.0419	42	0.0448	45	70-130	7	35	mg/kg	08.30.2020 03:05	X
m,p-Xylenes	<0.00397	0.198	0.0696	35	0.0837	42	70-130	18	35	mg/kg	08.30.2020 03:05	X
o-Xylene	<0.00198	0.0992	0.0528	53	0.0541	54	70-130	2	35	mg/kg	08.30.2020 03:05	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		102		70-130	%	08.30.2020 03:05
4-Bromofluorobenzene	119		116		70-130	%	08.30.2020 03:05

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 671114

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Grizzly
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cole State #10	Turn Around	
Project Number:	11465	Routine:	☑
Project Location	Lea county, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	0.9 / 0.5	Temp Blank: Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL4@4'	Soil	8.25.20		4'	1	X	X	X	
FL5@4'	Soil	8.25.20		4'	1	X	X	X	
FL6@4'	Soil	8.25.20		4'	1	X	X	X	
SW W#2	Soil	8-25-20		—	1	X	X	X	
NEW #2	Soil	8.25.20		—	1	X	X	X	
FL7@4'	Soil	8.25.20		4'	1	X	X	X	
FL8@4'	Soil	8.25.20		4'	1	X	X	X	
FL9@4'	Soil	8.25.20		4'	1	X	X	X	
FL10@4'	Soil	8.26.20		4'	1	X	X	X	
FL11@4'	Soil	8.26.20		4'	1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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 $75.00 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	Miguel Ramirez	Ezra Cavill	8-26-20 4:10			
2				Ezra Cavill	Brittney	8/27/20 1440
3						
4						
5						
6						

Revised Date 101419 Rev. 2019.1

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 671114

www.xenco.com Page 2 of 2

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	GPI 22 [illegible]
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cole State #10	Turn Around	
Project Number:	11465	Routine:	☑
Project Location	Lea County, NM	Rush:	☐
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT			
Temperature (°C):	0.9/0.5	Temp Blank:	Yes (No)
Received Intact:	(Yes) No	Wet Ice:	(Yes) No
Cooler Custody Seals:	Yes No (N/A)	Thermometer ID	
Sample Custody Seals:	Yes No (N/A)	Correction Factor:	
		Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL12@4'	Soil	8-26-20		4'	1	X	X	X	
FL13@4'	Soil	8-26-20		4'	1	X	X	X	
FL14@4'	Soil	8-26-20		4'	1	X	X	X	
FL15@4	Soil	8-26-20		4'	1	X	X	X	
SWW3	Soil	8-26-20		—	1	X	X	X	
NEW3	Soil	8-26-20		—	1	X	X	X	
SEW1	Soil	8-26-20		—	1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	[signature]	Ezra Carrillo	8-26-20 4:10			
2				Ezra Carrillo	[signature]	8/27/20 1100
3						
4						
5						
6						

Revised Date 101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.27.2020 11.40.00 AM

Work Order #: 671116

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 08.27.2020
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 08.28.2020
Jessica Kramer

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Certificate of Analysis Summary 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 09.09.2020 12:50
Report Date: 09.10.2020 11:19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	672125-001		672125-002		672125-003		672125-004		672125-005		672125-006	
	Field Id:	NWW1B		SWW1B		FL3 @5'		FL4 @5'		FL11 @5'		FL12 @5'	
	Depth:					5- ft		5- ft		5- ft		5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	09.09.2020 00:00		09.09.2020 00:00		09.09.2020 00:00		09.09.2020 00:00		09.09.2020 00:00		09.09.2020 00:00	
TPH by SW8015 Mod	***Extracted:***	09.09.2020 14:10		09.09.2020 14:10		09.09.2020 14:10		09.09.2020 14:10		09.09.2020 14:10		09.09.2020 14:10	
	Analyzed:	09.09.2020 14:35		09.09.2020 14:54		09.09.2020 15:14		09.09.2020 15:34		09.09.2020 15:54		09.09.2020 16:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<49.9	49.9	<50.2	50.2
Diesel Range Organics (DRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<49.9	49.9	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<49.9	49.9	<50.2	50.2
Total TPH		<49.9	49.9	<49.8	49.8	<50.2	50.2	<49.8	49.8	<49.9	49.9	<50.2	50.2

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole State #10

Project Id: 11465
Contact: PM
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 09.09.2020 12:50
Report Date: 09.10.2020 11:19
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	672125-007					
	Field Id:	FL15 @5'					
	Depth:	5- ft					
	Matrix:	SOIL					
	Sampled:	09.09.2020 00:00					
TPH by SW8015 Mod	***Extracted:***	09.09.2020 14:10					
	Analyzed:	09.09.2020 16:35					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total TPH		<50.0	50.0				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 672125

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Cole State #10

11465

09.10.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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09.10.2020

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **672125**
Cole State #10
Project Address: Lea County, New Mexico

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 672125. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 672125 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NWW1B	S	09.09.2020 00:00		672125-001
SWW1B	S	09.09.2020 00:00		672125-002
FL3 @5'	S	09.09.2020 00:00	5 ft	672125-003
FL4 @5'	S	09.09.2020 00:00	5 ft	672125-004
FL11 @5'	S	09.09.2020 00:00	5 ft	672125-005
FL12 @5'	S	09.09.2020 00:00	5 ft	672125-006
FL15 @5'	S	09.09.2020 00:00	5 ft	672125-007

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Cole State #10

Project ID: *11465*
Work Order Number(s): *672125*

Report Date: *09.10.2020*
Date Received: *09.09.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**NWW1B**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-001	Date Collected:	09.09.2020 00:00		
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.09.2020 14:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.09.2020 14:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.09.2020 14:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.09.2020 14:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	09.09.2020 14:35	
o-Terphenyl	84-15-1	118	%	70-135	09.09.2020 14:35	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**SWW1B**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-002	Date Collected:	09.09.2020 00:00		
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.09.2020 14:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.09.2020 14:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.09.2020 14:54	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.09.2020 14:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-135	09.09.2020 14:54	
o-Terphenyl	84-15-1	122	%	70-135	09.09.2020 14:54	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL3 @5'**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-003	Date Collected:	09.09.2020 00:00	Sample Depth:	5 ft
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.09.2020 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.09.2020 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.09.2020 15:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.09.2020 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	09.09.2020 15:14	
o-Terphenyl	84-15-1	116	%	70-135	09.09.2020 15:14	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL4 @5'**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-004	Date Collected:	09.09.2020 00:00	Sample Depth:	5 ft
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.09.2020 15:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.09.2020 15:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.09.2020 15:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.09.2020 15:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	09.09.2020 15:34	
o-Terphenyl	84-15-1	115	%	70-135	09.09.2020 15:34	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL11 @5'**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-005	Date Collected:	09.09.2020 00:00	Sample Depth:	5 ft
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	09.09.2020 15:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	09.09.2020 15:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	09.09.2020 15:54	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	09.09.2020 15:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	09.09.2020 15:54	
o-Terphenyl	84-15-1	114	%	70-135	09.09.2020 15:54	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL12 @5'**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-006	Date Collected:	09.09.2020 00:00	Sample Depth:	5 ft
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.09.2020 16:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.09.2020 16:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.09.2020 16:15	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.09.2020 16:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	09.09.2020 16:15	
o-Terphenyl	84-15-1	113	%	70-135	09.09.2020 16:15	

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Certificate of Analytical Results 672125

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole State #10

Sample Id:	**FL15 @5'**	Matrix:	Soil	Date Received:	09.09.2020 12:50
Lab Sample Id:	672125-007	Date Collected:	09.09.2020 00:00	Sample Depth:	5 ft
Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.09.2020 14:10	Basis:	Wet Weight
Seq Number:	3136684				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.09.2020 16:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.09.2020 16:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.09.2020 16:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.09.2020 16:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	09.09.2020 16:35	
o-Terphenyl	84-15-1	115	%	70-135	09.09.2020 16:35	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 672125

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Etech Environmental & Safety Solution, Inc

Cole State #10

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136684 — Matrix: Solid — Date Prep: 09.09.2020
MB Sample Id: 7711004-1-BLK — LCS Sample Id: 7711004-1-BKS — LCSD Sample Id: 7711004-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	898	90	860	86	70-135	4	35	mg/kg	09.09.2020 10:12	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	973	97	70-135	4	35	mg/kg	09.09.2020 10:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		122		115		70-135	%	09.09.2020 10:12
o-Terphenyl	101		117		112		70-135	%	09.09.2020 10:12

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136684 — Matrix: Solid — Date Prep: 09.09.2020
MB Sample Id: 7711004-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.09.2020 09:51	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136684 — Matrix: Soil — Date Prep: 09.09.2020
Parent Sample Id: 672074-001 — MS Sample Id: 672074-001 S — MSD Sample Id: 672074-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	899	90	897	90	70-135	0	35	mg/kg	09.09.2020 12:11	
Diesel Range Organics (DRO)	<50.1	1000	1030	103	997	100	70-135	3	35	mg/kg	09.09.2020 12:11	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	131		127		70-135	%	09.09.2020 12:11
o-Terphenyl	127		133		70-135	%	09.09.2020 12:11

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 672125

www.xenco.com Page 1 of 1

Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safety	Company Name:	Grizzly
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level I ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cole State #10	Turn Around	
Project Number:	11465	Routine:	☐
Project Location	Lea County, NM	Rush:	☒ 24hr
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	5.2 / 5.0	Thermometer ID	TNH007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	7	

ANALYSIS REQUEST

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	Sample Comments
NWW1B	Soil	9.9.20		-'	1			X		
SWW1B	Soil	9.9.20		-'	1			X		
FL3@5'	Soil	9.9.20		5'	1			X		
FL4@5'	Soil	9.9.20		5'	1			X		
FL11@5'	Soil	9.9.20		5'	1			X		
FL12@5'	Soil	9.9.20		5'	1			X		
FL15@5'	Soil	9.9.20		5'	1			X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

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 $75.00 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			9/9/20 12:50	2		
3				4		
5				6		

Revised Date 101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.09.2020 12.50.00 PM

Work Order #: 672125

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 09.09.2020

Checklist reviewed by: Jessica Kramer Date: 09.10.2020

Jessica Kramer

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Certificate of Analysis Summary 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole Stute #10

Project Id: 11465
Contact: PM
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 09.10.2020 15:28
Report Date: 09.11.2020 10:57
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	672280-001		672280-002		672280-003		672280-004		672280-005		672280-006	
	Field Id:	FL 16 @ 5'		FL 17 @ 5'		FL 18 @ 5'		FL 19 @ 5'		FL 20 @ 5'		SWW 4	
	Depth:	5- ft		5- ft		5- ft		5- ft		5- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	09.10.2020 00:00		09.10.2020 00:00		09.10.2020 00:00		09.10.2020 00:00		09.10.2020 00:00		09.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	09.10.2020 16:37		09.10.2020 16:37		09.10.2020 16:37		09.10.2020 16:37		09.10.2020 16:37		09.10.2020 16:37	
	Analyzed:	09.11.2020 01:05		09.11.2020 01:27		09.11.2020 01:50		09.11.2020 02:12		09.11.2020 02:34		09.11.2020 02:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00403	0.00403	<0.00398	0.00398	<0.00400	0.00400	<0.00402	0.00402	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00201	0.00201	<0.00201	0.00201	<0.00201	0.00201
Inorganic Anions by EPA 300	***Extracted:***	09.10.2020 16:54		09.10.2020 16:54		09.10.2020 16:54		09.10.2020 16:54		09.10.2020 16:54		09.10.2020 16:54	
	Analyzed:	09.10.2020 17:17		09.10.2020 17:33		09.10.2020 17:38		09.10.2020 17:44		09.10.2020 17:49		09.10.2020 18:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		241	10.0	255	10.0	245	10.0	254	9.96	137	10.1	97.8	10.1
TPH by SW8015 Mod	***Extracted:***	09.10.2020 15:30		09.10.2020 15:30		09.10.2020 15:30		09.10.2020 15:30		09.10.2020 16:30		09.10.2020 16:30	
	Analyzed:	09.10.2020 18:30		09.10.2020 18:50		09.10.2020 19:10		09.10.2020 19:31		09.10.2020 21:11		09.10.2020 22:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.0	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.0	50.0	<50.0	50.0
Total TPH		<50.2	50.2	<49.8	49.8	<50.1	50.1	<50.3	50.3	<50.0	50.0	<50.0	50.0

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Cole Stute #10

Project Id: 11465
Contact: PM
Project Location: Lea County, New Mexico

Date Received in Lab: Thu 09.10.2020 15:28
Report Date: 09.11.2020 10:57
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	672280-007					
	Field Id:	NEW 4					
	Depth:						
	Matrix:	SOIL					
	Sampled:	09.10.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	09.10.2020 16:37					
	Analyzed:	09.11.2020 03:19					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00400	0.00400				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Inorganic Anions by EPA 300	***Extracted:***	09.10.2020 16:54					
	Analyzed:	09.10.2020 18:11					
	Units/RL:	mg/kg	RL				
Chloride		10.1	10.1				
TPH by SW8015 Mod	***Extracted:***	09.10.2020 16:30					
	Analyzed:	09.10.2020 22:32					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3				
Diesel Range Organics (DRO)		<50.3	50.3				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3				
Total TPH		<50.3	50.3				

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 672280

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Cole Stute #10

11465

09.11.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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09.11.2020

Project Manager: **PM**
Etech Environmental & Safety Solution, Inc
P.O. Box 62228
Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **672280**
Cole Stute #10
Project Address: Lea County, New Mexico

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 672280. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 672280 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FL 16 @ 5'	S	09.10.2020 00:00	5 ft	672280-001
FL 17 @ 5'	S	09.10.2020 00:00	5 ft	672280-002
FL 18 @ 5'	S	09.10.2020 00:00	5 ft	672280-003
FL 19 @ 5'	S	09.10.2020 00:00	5 ft	672280-004
FL 20 @ 5'	S	09.10.2020 00:00	5 ft	672280-005
SWW 4	S	09.10.2020 00:00		672280-006
NEW 4	S	09.10.2020 00:00		672280-007

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CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Cole Stute #10

Project ID: *11465*
Work Order Number(s): *672280*

Report Date: *09.11.2020*
Date Received: *09.10.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 16 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-001	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:54	Basis:	Wet Weight
Seq Number:	3136852				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**241**	10.0	mg/kg	09.10.2020 17:17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.10.2020 15:30	Basis:	Wet Weight
Seq Number:	3136854				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.10.2020 18:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	09.10.2020 18:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.10.2020 18:30	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	09.10.2020 18:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	09.10.2020 18:30	
o-Terphenyl	84-15-1	121	%	70-135	09.10.2020 18:30	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 16 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-001	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	09.11.2020 01:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	09.11.2020 01:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.11.2020 01:05	
1,4-Difluorobenzene	540-36-3	99	%	70-130	09.11.2020 01:05	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 17 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-002	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:54	Basis:	Wet Weight
Seq Number:	3136852				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**255**	10.0	mg/kg	09.10.2020 17:33		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.10.2020 15:30	Basis:	Wet Weight
Seq Number:	3136854				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	09.10.2020 18:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	09.10.2020 18:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	09.10.2020 18:50	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	09.10.2020 18:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	09.10.2020 18:50	
o-Terphenyl	84-15-1	112	%	70-135	09.10.2020 18:50	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 17 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-002	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	09.11.2020 01:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	09.11.2020 01:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.11.2020 01:27	
4-Bromofluorobenzene	460-00-4	91	%	70-130	09.11.2020 01:27	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 18 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-003	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:54	Basis:	Wet Weight
Seq Number:	3136852				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**245**	10.0	mg/kg	09.10.2020 17:38		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.10.2020 15:30	Basis:	Wet Weight
Seq Number:	3136854				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.10.2020 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.10.2020 19:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.10.2020 19:10	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.10.2020 19:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	09.10.2020 19:10	
o-Terphenyl	84-15-1	115	%	70-135	09.10.2020 19:10	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 18 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-003	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.11.2020 01:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.11.2020 01:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.11.2020 01:50	
4-Bromofluorobenzene	460-00-4	94	%	70-130	09.11.2020 01:50	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 19 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-004	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:54	Basis:	Wet Weight
Seq Number:	3136852				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**254**	9.96	mg/kg	09.10.2020 17:44		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.10.2020 15:30	Basis:	Wet Weight
Seq Number:	3136854				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.10.2020 19:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.10.2020 19:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.10.2020 19:31	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.10.2020 19:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	09.10.2020 19:31	
o-Terphenyl	84-15-1	110	%	70-135	09.10.2020 19:31	

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Certificate of Analytical Results 672280

Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**FL 19 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-004	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.11.2020 02:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.11.2020 02:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	09.11.2020 02:12	
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.11.2020 02:12	

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Cole Stute #10

Sample Id:	**FL 20 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-005	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:54	Basis:	Wet Weight
Seq Number:	3136852				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**137**	10.1	mg/kg	09.10.2020 17:49		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	09.10.2020 16:30	Basis:	Wet Weight
Seq Number:	3136858				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.10.2020 21:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.10.2020 21:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.10.2020 21:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.10.2020 21:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	09.10.2020 21:11	
o-Terphenyl	84-15-1	111	%	70-135	09.10.2020 21:11	

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Cole Stute #10

Sample Id:	**FL 20 @ 5'**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-005	Date Collected:	09.10.2020 00:00	Sample Depth:	5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.11.2020 02:34	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.11.2020 02:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.11.2020 02:34	
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.11.2020 02:34	

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Cole Stute #10

Sample Id: **SWW 4** Matrix: Soil Date Received:09.10.2020 15:28

Lab Sample Id: 672280-006 Date Collected: 09.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.10.2020 16:54 Basis: Wet Weight

Seq Number: 3136852

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**97.8**	10.1	mg/kg	09.10.2020 18:06		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.10.2020 16:30 Basis: Wet Weight

Seq Number: 3136858

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.10.2020 22:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.10.2020 22:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.10.2020 22:11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.10.2020 22:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	09.10.2020 22:11	
o-Terphenyl	84-15-1	114	%	70-135	09.10.2020 22:11	

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Cole Stute #10

Sample Id:	**SWW 4**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-006	Date Collected:	09.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	09.11.2020 02:57	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1
Total BTEX		<0.00201	0.00201	mg/kg	09.11.2020 02:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	09.11.2020 02:57	
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.11.2020 02:57	

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Certificate of Analytical Results 672280

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Cole Stute #10

Sample Id: **NEW 4** Matrix: Soil Date Received:09.10.2020 15:28

Lab Sample Id: 672280-007 Date Collected: 09.10.2020 00:00

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.10.2020 16:54 Basis: Wet Weight

Seq Number: 3136852

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.1**	10.1	mg/kg	09.10.2020 18:11		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.10.2020 16:30 Basis: Wet Weight

Seq Number: 3136858

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.10.2020 22:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.10.2020 22:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.10.2020 22:32	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.10.2020 22:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	09.10.2020 22:32	
o-Terphenyl	84-15-1	117	%	70-135	09.10.2020 22:32	

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Etech Environmental & Safety Solution, Inc, Midland, TX

Cole Stute #10

Sample Id:	**NEW 4**	Matrix:	Soil	Date Received:	09.10.2020 15:28
Lab Sample Id:	672280-007	Date Collected:	09.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	09.10.2020 16:37	Basis:	Wet Weight
Seq Number:	3136847				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	09.11.2020 03:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	09.11.2020 03:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	09.11.2020 03:19	
4-Bromofluorobenzene	460-00-4	89	%	70-130	09.11.2020 03:19	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 672280

Etech Environmental & Safety Solution, Inc

Cole Stute #10

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3136852 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711097-1-BLK — LCS Sample Id: 7711097-1-BKS — LCSD Sample Id: 7711097-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	254	102	90-110	0	20	mg/kg	09.10.2020 17:06	

Analytical Method: Inorganic Anions by EPA 300 — Prep Method: E300P
Seq Number: 3136852 — Matrix: Soil — Date Prep: 09.10.2020
Parent Sample Id: 672280-001 — MS Sample Id: 672280-001 S — MSD Sample Id: 672280-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	241	200	445	102	446	103	90-110	0	20	mg/kg	09.10.2020 17:22	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136854 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711081-1-BLK — LCS Sample Id: 7711081-1-BKS — LCSD Sample Id: 7711081-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	806	81	850	85	70-135	5	35	mg/kg	09.10.2020 11:28	
Diesel Range Organics (DRO)	<50.0	1000	875	88	929	93	70-135	6	35	mg/kg	09.10.2020 11:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		107		114		70-135	%	09.10.2020 11:28
o-Terphenyl	100		101		114		70-135	%	09.10.2020 11:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136858 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711134-1-BLK — LCS Sample Id: 7711134-1-BKS — LCSD Sample Id: 7711134-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	836	84	873	87	70-135	4	35	mg/kg	09.10.2020 20:31	
Diesel Range Organics (DRO)	<50.0	1000	905	91	961	96	70-135	6	35	mg/kg	09.10.2020 20:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	94		126		117		70-135	%	09.10.2020 20:31
o-Terphenyl	98		105		109		70-135	%	09.10.2020 20:31

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136854 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711081-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.10.2020 11:08	

MS/MSD Percent Recovery [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

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QC Summary 672280

Etech Environmental & Safety Solution, Inc

Cole Stute #10

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136858 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711134-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	09.10.2020 20:11	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136854 — Matrix: Soil — Date Prep: 09.10.2020
Parent Sample Id: 672189-001 — MS Sample Id: 672189-001 S — MSD Sample Id: 672189-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	883	88	897	89	70-135	2	35	mg/kg	09.10.2020 12:28	
Diesel Range Organics (DRO)	<50.2	1000	988	99	1020	101	70-135	3	35	mg/kg	09.10.2020 12:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	125		120		70-135	%	09.10.2020 12:28
o-Terphenyl	120		118		70-135	%	09.10.2020 12:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3136858 — Matrix: Soil — Date Prep: 09.10.2020
Parent Sample Id: 672280-005 — MS Sample Id: 672280-005 S — MSD Sample Id: 672280-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	931	93	900	90	70-135	3	35	mg/kg	09.10.2020 21:31	
Diesel Range Organics (DRO)	<50.1	1000	1050	105	1010	101	70-135	4	35	mg/kg	09.10.2020 21:31	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	128		131		70-135	%	09.10.2020 21:31
o-Terphenyl	128		122		70-135	%	09.10.2020 21:31

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3136847 — Matrix: Solid — Date Prep: 09.10.2020
MB Sample Id: 7711096-1-BLK — LCS Sample Id: 7711096-1-BKS — LCSD Sample Id: 7711096-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.0981	98	70-130	3	35	mg/kg	09.10.2020 23:02	
Toluene	<0.00200	0.100	0.0991	99	0.0956	96	70-130	4	35	mg/kg	09.10.2020 23:02	
Ethylbenzene	<0.00200	0.100	0.0917	92	0.0888	89	71-129	3	35	mg/kg	09.10.2020 23:02	
m,p-Xylenes	<0.00400	0.200	0.184	92	0.179	90	70-135	3	35	mg/kg	09.10.2020 23:02	
o-Xylene	<0.00200	0.100	0.0927	93	0.0897	90	71-133	3	35	mg/kg	09.10.2020 23:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		98		70-130	%	09.10.2020 23:02
4-Bromofluorobenzene	87		87		88		70-130	%	09.10.2020 23:02

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 672280

Etech Environmental & Safety Solution, Inc

Cole Stute #10

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3136847 Matrix: Soil Date Prep: 09.10.2020

Parent Sample Id: 672280-001 MS Sample Id: 672280-001 S MSD Sample Id: 672280-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0917	92	0.122	121	70-130	28	35	mg/kg	09.10.2020 23:47	
Toluene	<0.00200	0.100	0.0904	90	0.118	117	70-130	26	35	mg/kg	09.10.2020 23:47	
Ethylbenzene	<0.00200	0.100	0.0842	84	0.110	109	71-129	27	35	mg/kg	09.10.2020 23:47	
m,p-Xylenes	<0.00401	0.200	0.170	85	0.220	109	70-135	26	35	mg/kg	09.10.2020 23:47	
o-Xylene	<0.00200	0.100	0.0837	84	0.110	109	71-133	27	35	mg/kg	09.10.2020 23:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	99		98		70-130	%	09.10.2020 23:47
4-Bromofluorobenzene	94		84		70-130	%	09.10.2020 23:47

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 672280

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Project Manager:	Joel Lowry	Bill to: (if different)	
Company Name:	Etech Environmental & Safely	Company Name:	Grizzly
Address:	3100 Plains Highway	Address:	
City, State ZIP:	Lovington, NM, 88260	City, State ZIP:	
Phone:	575-396-2378	Email:	Email Results to PM@etechenv.com + Client

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting:Level I ☐ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cole State #10	Turn Around	
Project Number:	11465	Routine:	☐
Project Location	Lea county, NM	Rush:	X 24hr
Sampler's Name:	Miguel Ramirez	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temperature (°C):	6.2/6.0	Temp Blank:	(Yes) No	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:	7	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005
FL 16@5'	So.1	9.10.20		5'	1	X	X	X	
FL 17@5'	So.1	9.10.20		5'	1	X	X	X	
FL 18@5'	So.1	9.10.20		5'	1	X	X	X	
FL 19@5'	So.1	9.10.20		5'	1	X	X	X	
FL 20@5'	So.1	9.10.20		5'	1	X	X	X	
SWW 4	So.1	9.10.20		-	1	X	X	X	
NEW 4	So.1	9.10.20		-	1	X	X	X	

Preservative Codes

HNO3: HN
H2S04: H2
HCL: HL
None: NO
NaOH: Na
MeOH: Me
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 : Hg

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1				2		
3		Cloe Cuffo	9.10.20 15:28	4		
5				6		

Revised Date 101419 Rev. 2019.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 09.10.2020 03.28.00 PM

Work Order #: 672280

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	6	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 Custody Seals intact on sample bottles?	**Yes**	
#6*Custody Seals Signed and dated?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	Samples received in bulk containers.
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Cloe Clifton Date: 09.10.2020

Checklist reviewed by: Jessica Kramer Date: 09.11.2020

Jessica Kramer

Appendix D
Photographic Log

Photographic Log

Dates: 11/05/2019 , 11/8/2019

Photo Number: 1	
Photo Direction: West	
Photo Description: Southern end of spill and release point.	

Photo Number: 2	
Photo Direction: North	
Photo Description: South of spill area looking north toward the rest of the spill.	

Photographic Log

Dates: 11/5/2019, 11/5/2019

Photo Number: 3	
Photo Direction: East	
Photo Description: Middle of spill area.	

Photo Number: 4	
Photo Direction: East	
Photo Description: Northern section of the spill area.	

Photographic Log

Photo Number: 5 **Photo Direction:** Northwest **Photo Description:** Open excavation.	

Photo Number: 6 **Photo Direction:** Northwest **Photo Description:** Open excavation.	

Photographic Log

Photo Number: 7	
Photo Direction: Northwest	
Photo Description: Open excavation.	

Photo Number: 8	
Photo Direction: West	
Photo Description: Open excavation	

Photographic Log

Photo Number: 9	
Photo Direction: North	
Photo Description: Impacted area after backfill and grading.	

Photo Number: 10	
Photo Direction: North	
Photo Description: Impacted area after backfill and grading.	

Photographic Log

Photo Number: 11	
Photo Direction: North	
Photo Description: Impacted area after backfill and grading.	