

Remediation Summary and Soil Closure Request

COG Operating, LLC SRO State Com #6H

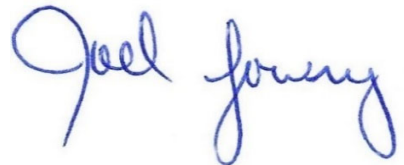
Lea County, New Mexico
Unit Letter "D", Section 5, Township 26 South, Range 28 East
Latitude 32.07685 North, Longitude 104.11665 West
NMOCD Reference No. 2RP-5661

Prepared By:

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



Lance Crenshaw



Joel W. Lowry



TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
REMEDIATION ACTIVITIES SUMMARY.....	4.0
RESTORATION, RECLAMATION AND RE-VEGETATION PLAN.....	5.0
SOIL CLOSURE REQUEST.....	6.0
LIMITATIONS.....	7.0
DISTRIBUTION.....	8.0

FIGURES

- Figure 1 - Topographic Map
- Figure 2 - Aerial Proximity Map
- Figure 3 - Site & Sample Location Map

TABLES

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

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Field Data and Soil Profile Logs
- Appendix C - Laboratory Analytical Reports
- Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this Remediation Summary and Soil Closure Request for the Release Site known as the SRO State Com #6H. Details of the release are summarized below:

Location of Release Source

Latitude: 32.07685 Longitude: -104.11665

Provided GPS are in WGS84 format.

Site Name: SRO State Com #6H	Site Type: 0
Date Release Discovered: 9/14/2019	API # (if applicable):

Unit Letter	Section	Township	Range	County
"D"	5	26S	28E	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15 bbls	Volume Recovered (bbls) 14 bbls
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: The release was caused by the heater failing to dump sending fluid through the flare.		

Initial Response

<input checked="" type="checkbox"/>	The source of the release has been stopped.
<input checked="" type="checkbox"/>	The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/>	Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices
<input checked="" type="checkbox"/>	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?	<u><50 Ft.</u>		
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

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
<50 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	NA
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 REMEDIATION ACTIVITIES SUMMARY

On **September 19, 2019**, Etech conducted an initial release assessment at the Site. During the initial release assessment, a series of hand-augered soil bores (V-1 through V-3) were advanced within the release margins in an effort to determine the vertical extent of impacted soil affected above the NMOCD Closure Criteria. During the advancement of the hand-augered soil bores, thirteen (13) soil samples were collected and submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria beyond 2 Ft. bgs in the area characterized by sample point V-1, 4 Ft. bgs in the area characterized by sample point V-2 and 2 Ft. bgs in the area characterized by sample point V-3.

In addition, six (6) hand-augered soil bores (NH-1, WH-1, EH-1, EH-2, SH-1 and WH-2) were advanced near the inferred edges of the release margins in an effort to determine the horizontal extent of impacted soil affected above the NMOCD Closure Criteria. During the advancement of the hand-augered soil bores, twelve (12) soil samples were collected and submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated soil was not affected above the NMOCD Closure Criteria beyond sample points NH-1, WH-1, EH-1, EH-2, SH-1 and WH-2.

On **October 3, 2019**, remediation activities commenced at the Site. In accordance with NMOCD Regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, atop an impermeable liner, 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/or test results suggested BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria.

On **October 4, 2019**, Etech collected ten (10) excavation confirmation soil samples (F1 @ 4', F2 @ 4', F3 @ 4', W1 @ 2', W2 @ 2', W3 @ 2', W4 @ 2', W5 @ 2', W6 @ 4' and W7 @ 4') from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria in each of the submitted soil samples.

On **October 7, 2019**, Etech collected fifteen (15) excavation confirmation soil samples (F4, F5, F6, F7, F8, F9, F10, F11, F12, W8, W9, W10, W11, W12 and W13) from the floor and sidewalls of the excavated area. The collected soil samples were submitted to a certified commercial laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations below the applicable NMOCD Closure Criteria 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 in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

The final dimensions of the excavated area were 100 Ft. in length, 15 to 40 Ft. in width and ranged from 2 to 4 Ft. in depth. During the course of remediation activities approximately 680 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 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 graded and compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Upon grading and compacting the affected area, the earthen berm was repaired and the facility was restored to pre-release conditions.

6.0 SOIL CLOSURE REQUEST

Remediation activities were conducted in accordance with applicable NMOCD Regulations. 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 COG Operating, LLC provide copies of this Remediation Summary and Soil Closure Request to the appropriate agencies and request closure be granted to the SRO State Com #6H Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Workplan 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. Basis 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 COG Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or COG Operating, LLC.

8.0 DISTRIBUTION

COG Operating, LLC

*600 West Illinois Avenue
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

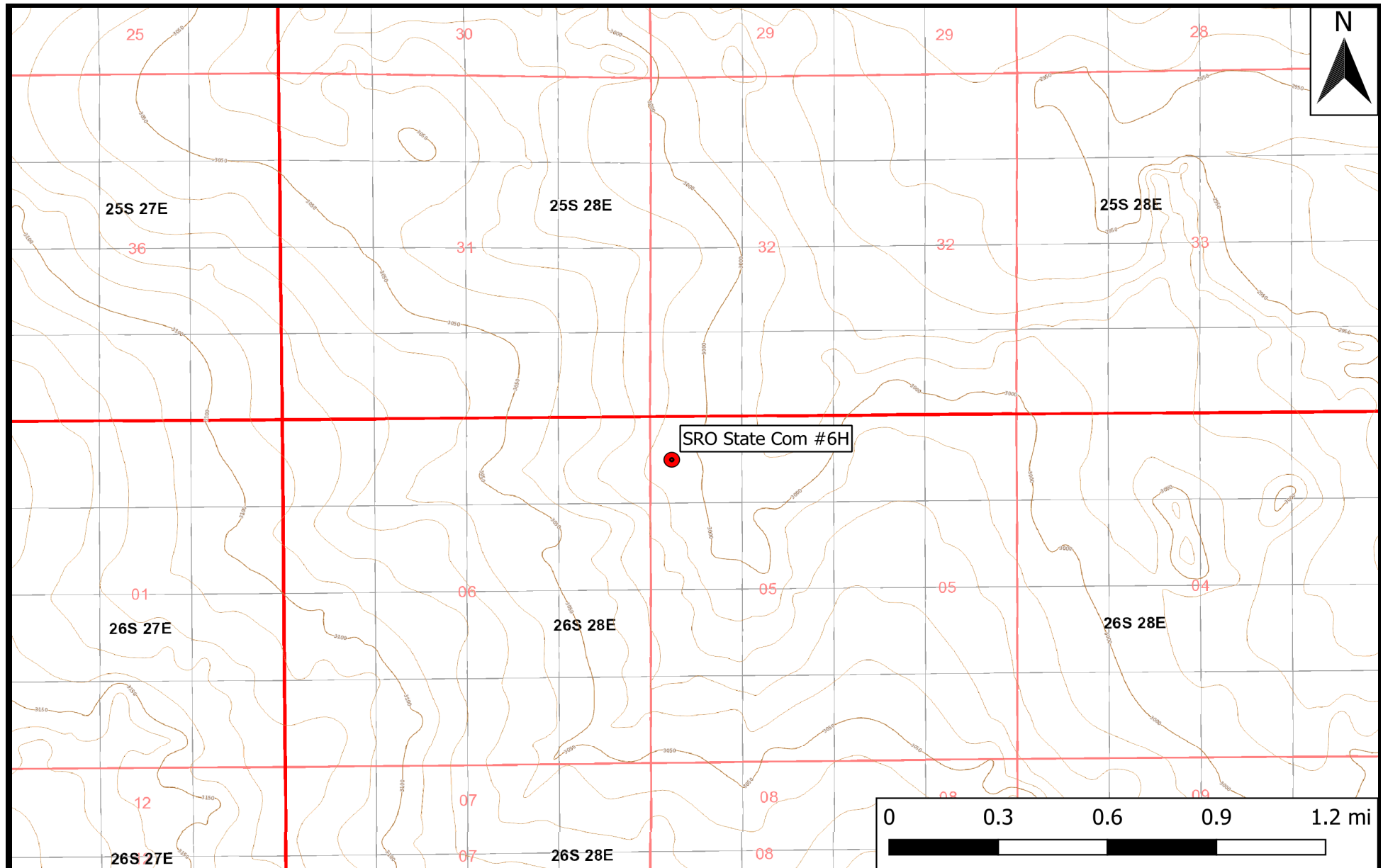
Hobbs Field Office

*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
COG Operating, LLC
SRO State Com #6H
GPS: 32.07685, -104.11665
Eddy County



Drafted: mag

Checked: jwl

Date: 10/11/19

Figure 2

Aerial Proximity Map

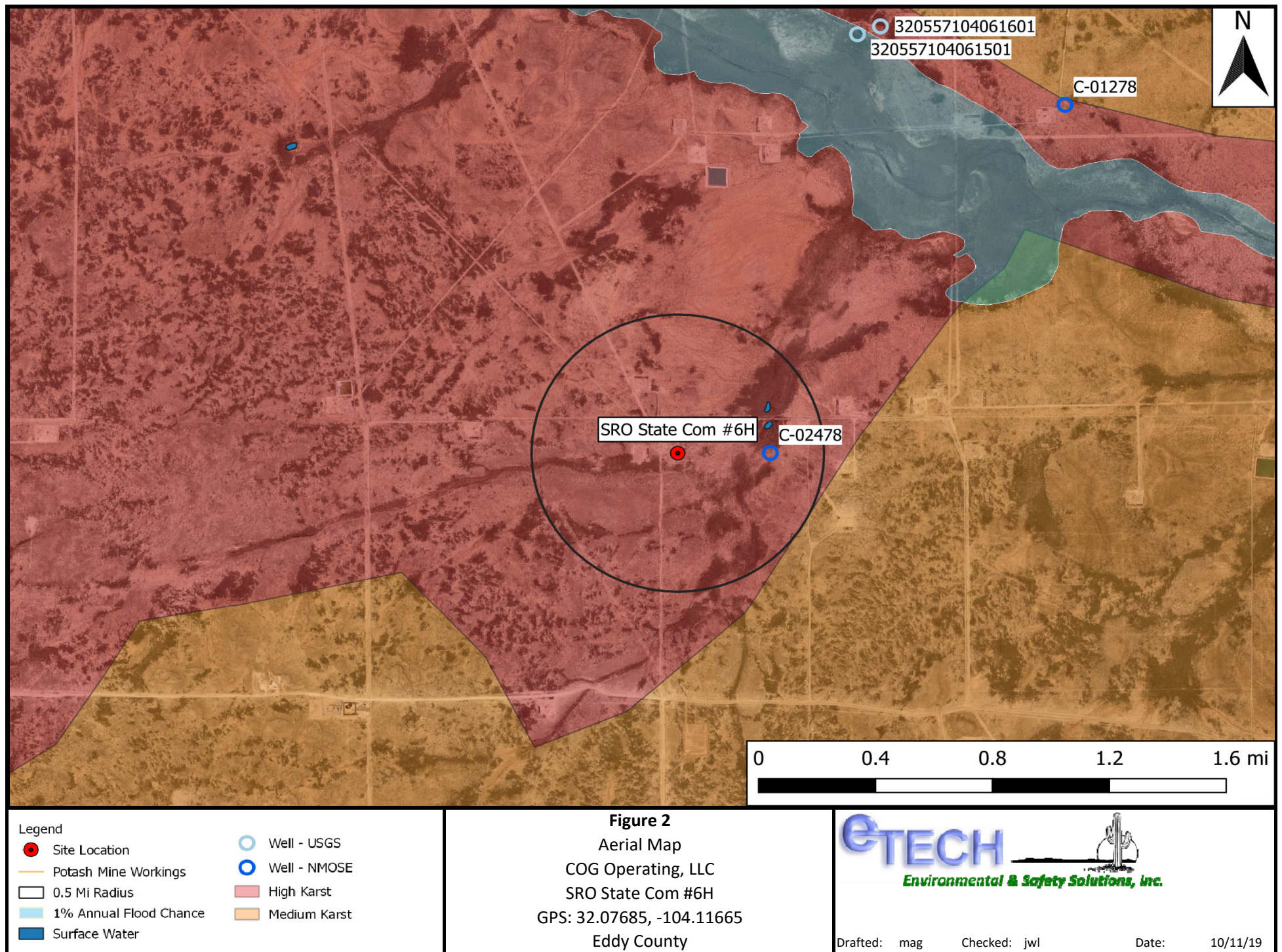
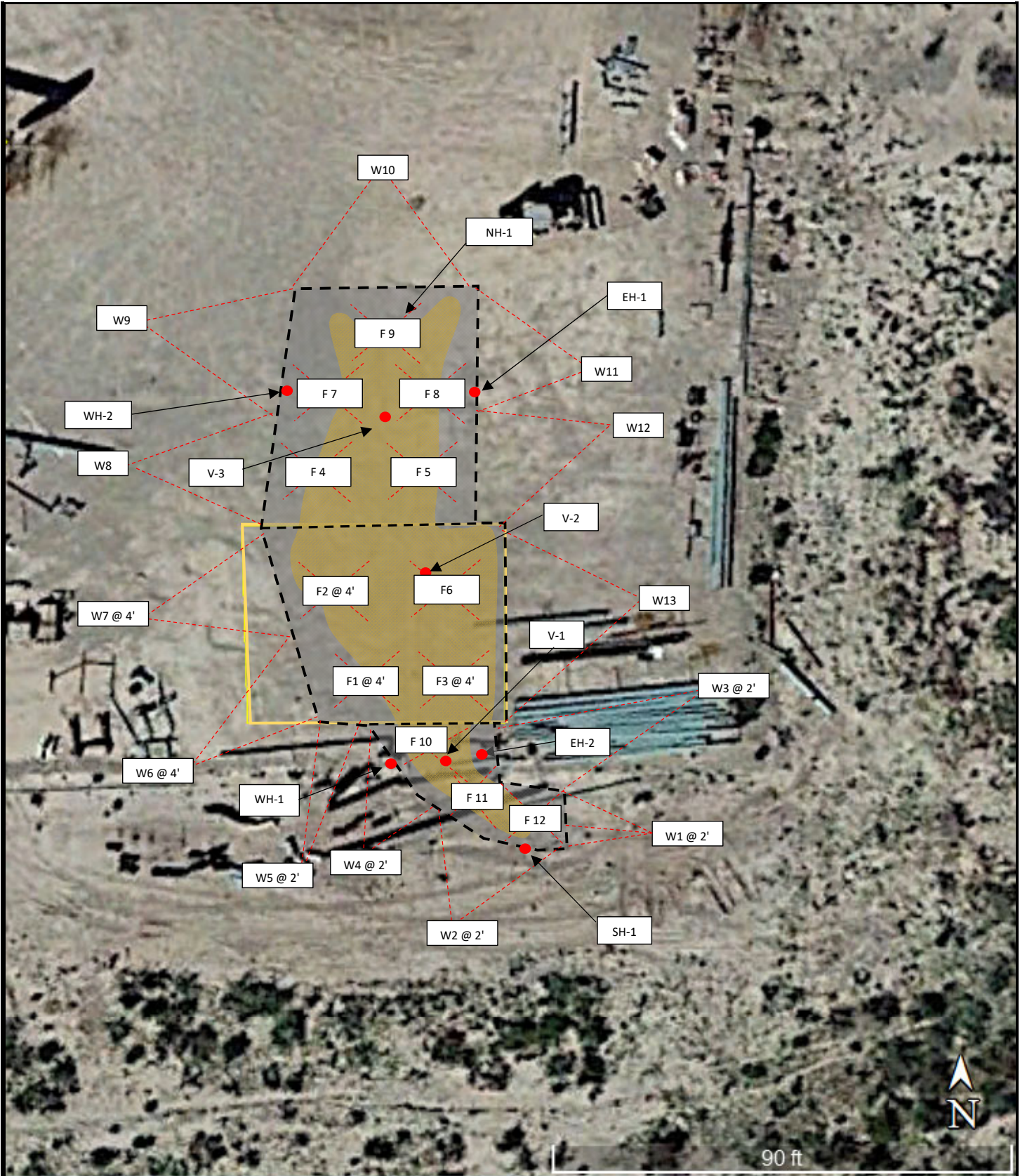


Figure 3

Site and Sample Location Map



Legend:

- Delineation Sample Location
- Affected Area
- - - Excavated Area
- Earthen Containment
- - - Confirmation Sample Location

Figure 3
Site and Sample Location Map
COG Operating, LLC
SRO State Com #6H
GPS: 32.07685, -104.11665
Lea County



Environmental & Safety Solutions, Inc.

Drafted:

Checked: jwl Date: 10/14/19

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

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
SRO State Com #6H
NMOCD Ref. #:

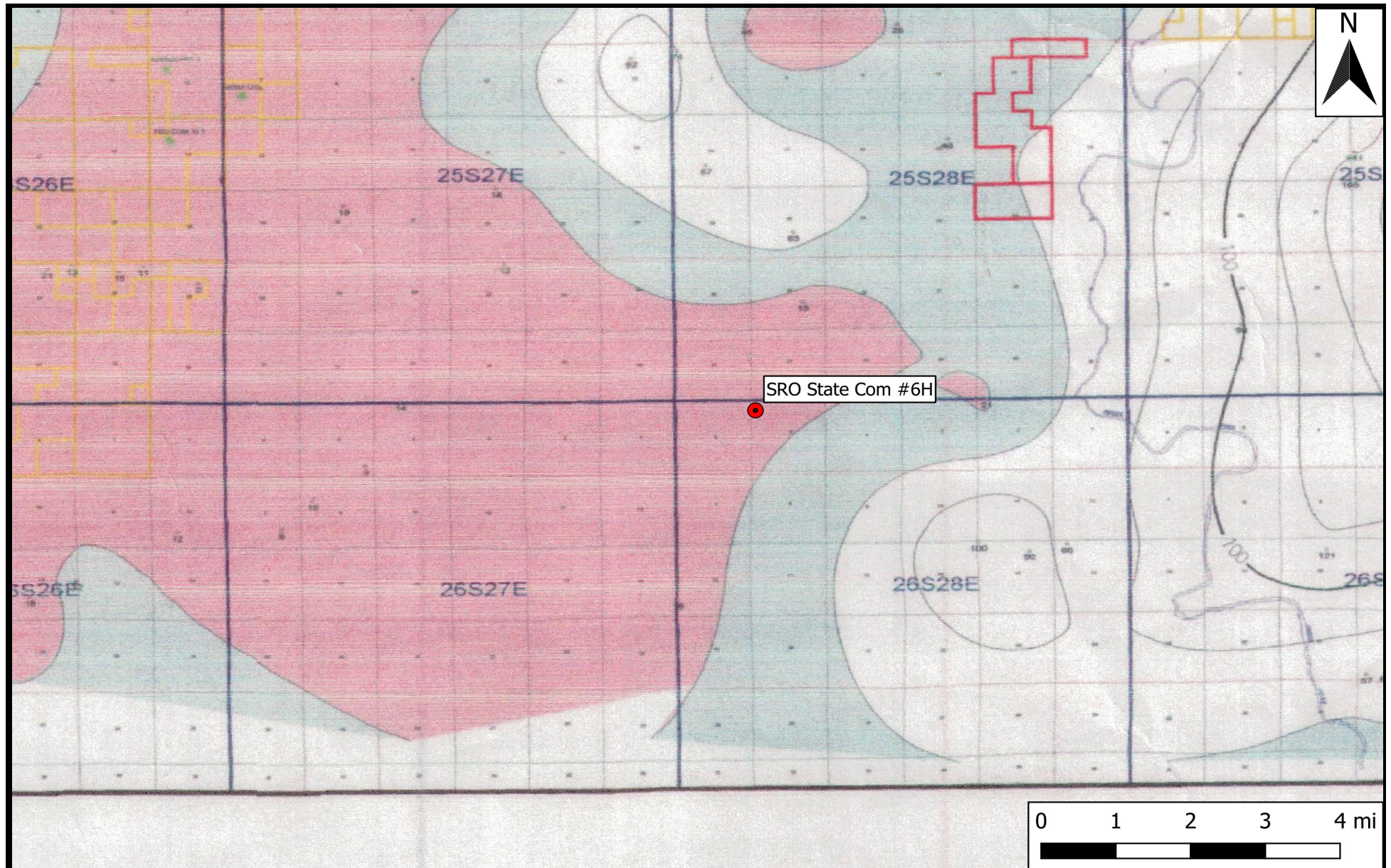
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
V-1	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	26,000
V-1	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
V-1	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
V-1	9/19/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
V-2	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	40.0	40.0	<10.0	40.0	30,000
V-2	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,720
V-2	9/19/19	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
V-2	9/19/19	3'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,320
V-2	9/19/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
V-3	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	56,800
V-3	9/19/19	1'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
V-3	9/19/19	2'	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
NH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
NH-1	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
WH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
WH-1	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
EH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
EH-1	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
EH-2	9/19/19	Surf	Excavated	<0.050	<0.300	<10.0	774	774	544	1,318	224
EH-2	9/19/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SH-1	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SH-1	9/19/19	1.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
WH-2	9/19/19	1'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
WH-2	9/19/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
F1 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
F2 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
F3 @ 4'	10/4/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W1 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W2 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
W3 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W4 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
W5 @ 2'	10/4/19	0-2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W6 @ 4'	10/4/19	04'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W7 @ 4'	10/4/19	0-4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
F 4	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
F 5	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
F 6	10/7/19	4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
F 7	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 8	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
F 9	10/7/19	3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 10	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
F 11	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
F 12	10/7/19	2'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
W 8	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
W 9	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
W 10	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
W 11	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
W 12	10/7/19	0-3'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
W 13	10/7/19	0-4'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4

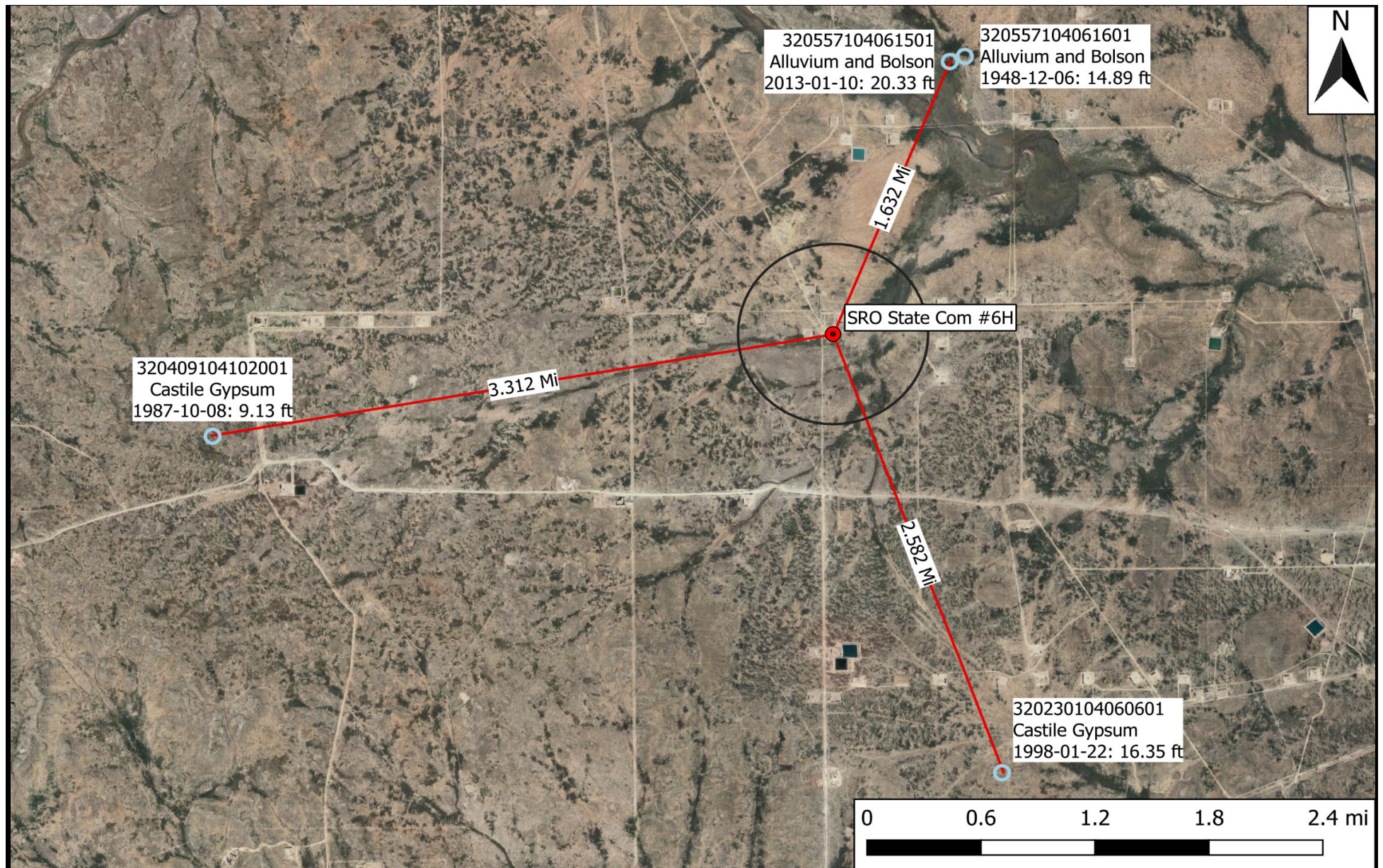
Inferred Depth to Groundwater Trend Map
 COG Operating, LLC
 SRO State Com #6H
 GPS: 32.07685, -104.11665
 Eddy County



Drafted: mag

Checked: jwl

Date: 10/11/19



Legend

- Site Location
- Well - USGS
- Distance Line
- Half Mile Radius

Figure 5

USGS Well Proximity Map
 COG Operating, LLC
 SRO State Com #6H
 GPS: 32.07685, -104.11665
 Eddy County



Drafted:

Checked: jwl

Date:

10/11/19



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater ▼

Geographic Area:
United States ▼

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320230104060601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320230104060601 26S.28E.18.33111

Available data for this site

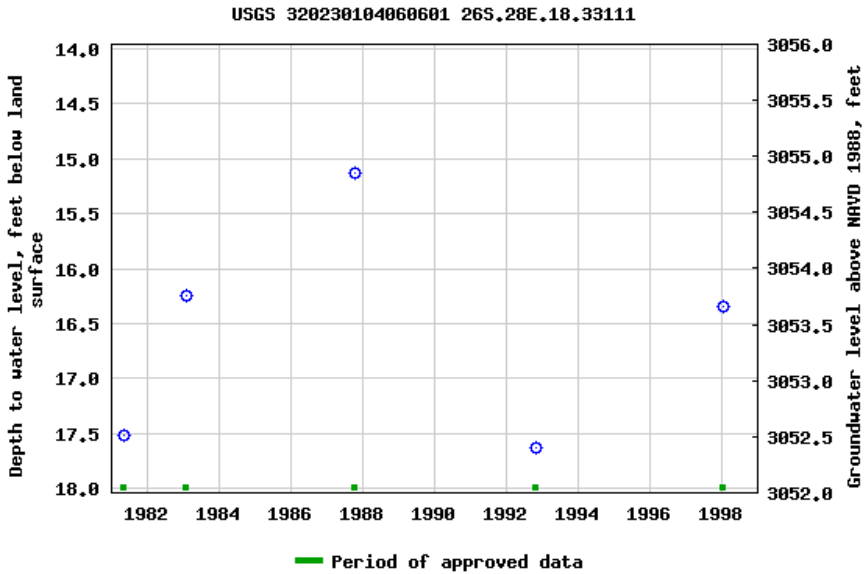
Groundwater: Field measurements ▼

GO

Eddy County, New Mexico
Hydrologic Unit Code 13070002
Latitude 32°02'30", Longitude 104°06'06" NAD27
Land-surface elevation 3,070 feet above NAVD88
This well is completed in the Castile Gypsum (312CSTL) 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](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[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: 2019-09-19 15:43:42 EDT

0.96 0.89 nadww02





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface


USGS Water Resources

Data Category:
Groundwater ▼

Geographic Area:
United States ▼

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =
• 320409104102001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

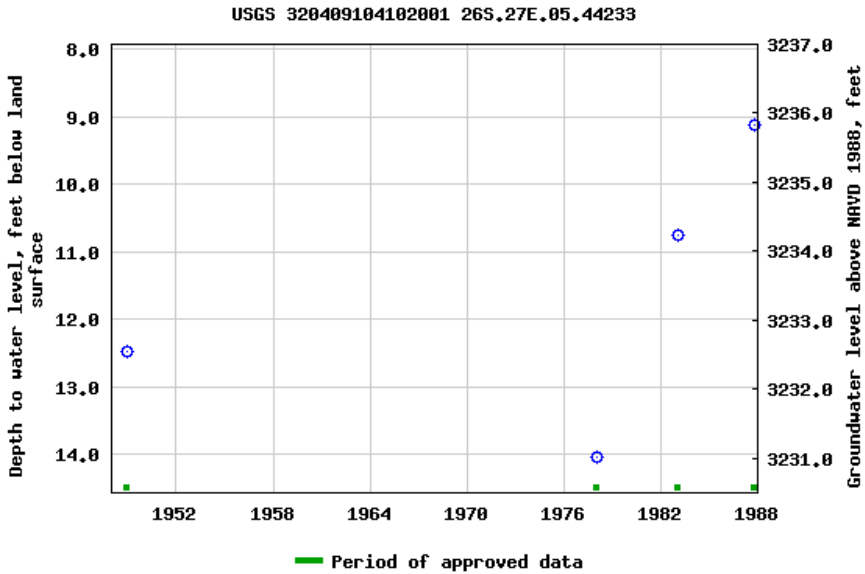
USGS 320409104102001 26S.27E.05.44233

Available data for this site Groundwater: Field measurements ▼ GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°04'09", Longitude 104°10'20" NAD27
Land-surface elevation 3,245 feet above NAVD88
This well is completed in the Castile Gypsum (312CSTL) 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](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[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: 2019-09-19 15:43:36 EDT

0.98 0.92 nadww02





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320557104061501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320557104061501 25S.28E.29.41243A

Available data for this site

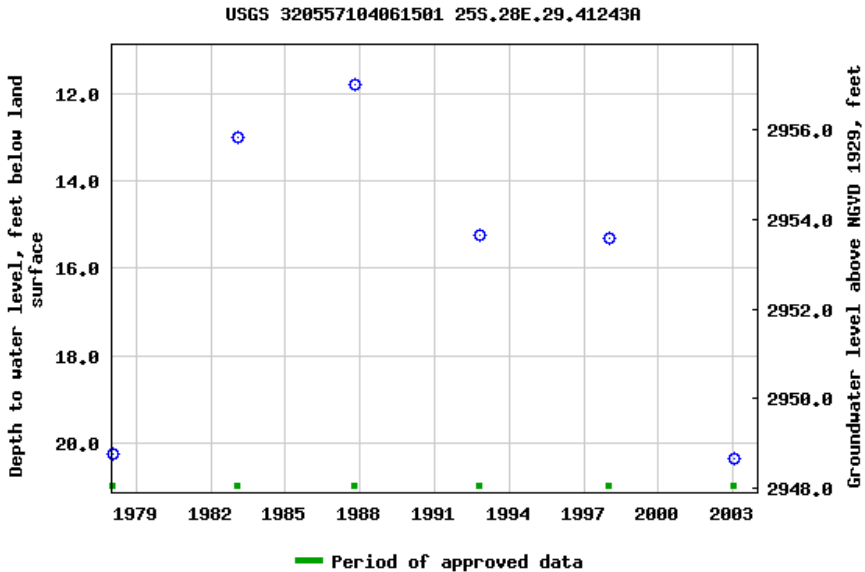
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°05'56.0", Longitude 104°06'22.6" NAD83
Land-surface elevation 2,968.90 feet above NGVD29
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](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[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: 2019-09-19 15:43:55 EDT

1.03 0.93 nadww02





USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320557104061601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320557104061601 25S.28E.29.41243

Available data for this site

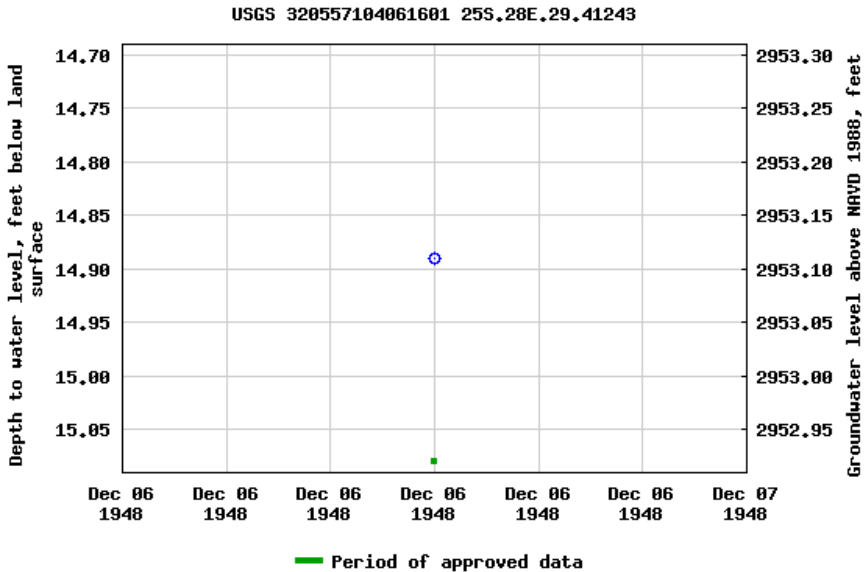
Groundwater: Field measurements

GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°05'57", Longitude 104°06'16" NAD27
Land-surface elevation 2,968 feet above NAVD88
The depth of the well is 60 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](#)
- [Subscribe for system changes](#)
- [News](#)

[Accessibility](#) [Plug-Ins](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

[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: 2019-09-19 15:43:48 EDT

1.09 1.04 nadww02



Appendix B
Field Data and Soil Profile Logs



Sample Log

Project: SRO State Com #4 HDate: 09.19.19Project Number: 11250Latitude: 32.07711Longitude: -104.11697

Sample ID	PID/Odor	Chloride Conc.	GPS
V-1 @ surface	No odor	52434 24756 11:00	32.07678, -104.11665
V-2 @ surface	No odor	72436 24756 11:00	32.07686, -104.11669
V-3 @ surface	No odor	72436 24756 11:02	32.07684, -104.11670
V-1 @ 1'	No odor	72436 24756 11:09	—
V-2 @ 1'	No odor	1184 11:13	—
V-3 @ 1'	No odor	114 11:58	—
V-1 @ 2'	No odor	<114 11:59	—
V-2 @ 2'	No odor	114 11:59	—
V-3 @ 2' + 3'	No odor	114 1:00	—
NH-1 @ surface	No odor	114 1:03	—
WH-1 @ surface	No odor	<114 1:15	—
EH-1 @ surface	No odor	<114 1:20	32.07677, -104.116718
SH-2 @ surface	No odor	312 1:25	32.07677, -104.116737
SH-1 @ surface	No odor	140 1:40	32.07680, -104.11676
V-1 @ 3'	No odor	272 1:45	32.076735, -104.116608
V-2 @ 3'	No odor	<114 2:00	—
V-2 @ 4'	No odor	444 2:15	—
WH-2 @ 1'	No odor	1032 400 2:20	—
WH-1 @ 1 1/2'	No odor	140 2:30	32.076786, -104.116765
SH-1 @ 1 1/2'	No odor	<114 2:35	—
EH-2 @ 2'	No odor	<114 2:40	—
EH-1 @ 1'	No odor	<114 2:45	—
NH-1 @ 1'	No odor	140 2:50	—
WH-7 @ 5' surface	No odor	140 3:00	—
WH-1 @ 2'	No odor	2:25	—

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

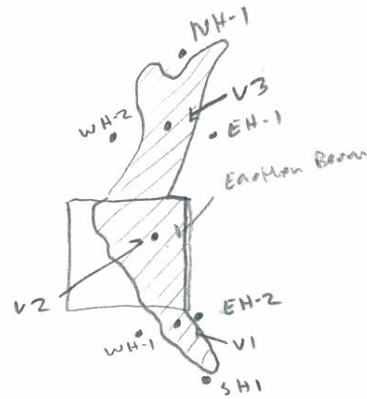


Initial Release Assessment Form

Project: SRO State Conn #6H Date: 9/11/2019
 Project Number: 11250 Clean Up Level: _____ Latitude: 32.07711 Longitude: -104.11697

Site Diagram

Well Pad



Notes: Conduct Initial Release Assessment

map affected area

Delineate Release Site

Conduct Chloride Field Test

~Length: 1000 ~Width: 10-30 ~Area: ~2,500 ft² ~Depth: 4'

3-4 Representative Pictures of the Affected Area including sample locations?

Yes No



Necessary Samples Field Screened and on Ice?



Sample and Field Screen Data Entered on Sample Log?



Was horizontal and vertical delineation achieved?





Soil Profile

Date: 10/7/2019Project: SRO State Com #6HProject Number: 0 Latitude: 32.07711 Longitude: -104.11697

Depth (ft. bgs)

Description

1	Import Fill / Caliche Well Pad
2	
3	
4	Brown Alkali Soil
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	

Appendix C

Laboratory Analytical Reports



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

September 27, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 09/24/19 14:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 1 @ SURFACE (H903284-01)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372		
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 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	26000	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 2 @ SURFACE (H903284-02)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372	
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 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	30000	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	40.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 3 @ SURFACE (H903284-03)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.70	85.0	2.00	0.372		
Toluene*	<0.050	0.050	09/26/2019	ND	1.71	85.5	2.00	1.89		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.68	84.1	2.00	1.52		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.97	82.9	6.00	1.85		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 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	56800	16.0	09/26/2019	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	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 1 @ 1' (H903284-04)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 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	10400	16.0	09/26/2019	ND	416	104	400	3.77	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*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 2 @ 1' (H903284-05)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.8 % 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	4720	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 95.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/24/2019
 Reported: 09/27/2019
 Project Name: SRO STATE COM #6H
 Project Number: 11250
 Project Location: COG - RURAL EDDY CO

Sampling Date: 09/19/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 @ 1' (H903284-06)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.6 % 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	112	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 1 @ 2' (H903284-07)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.4 % 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	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 93.8 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 2 @ 2' (H903284-08)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 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	848	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 92.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 3 @ 2' (H903284-09)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 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	09/26/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: NH - 1 @ SURFACE (H903284-10)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.5 % 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	112	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	187	93.6	200	6.81	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	180	89.9	200	4.26	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: WH - 1 @ SURFACE (H903284-11)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.2 % 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	144	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 77.4 % 41-142

Surrogate: 1-Chlorooctadecane 80.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: EH - 1 @ SURFACE (H903284-12)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.3 % 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	128	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 85.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: EH - 2 @ SURFACE (H903284-13)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.0 % 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	224	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	774	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	544	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 75.4 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: SH - 1 @ SURFACE (H903284-14)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 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	09/26/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 75.9 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 1 @ 3' (H903284-15)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 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	512	16.0	09/26/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 94.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 2 @ 3' (H903284-16)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.3 % 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	3320	16.0	09/26/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40		
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83		
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND						

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: V - 2 @ 4' (H903284-17)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.8 % 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	09/26/2019	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: WH - 2 @ 1' (H903284-18)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	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	80.0	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 82.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: WH - 1 @ 2' (H903284-19)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.8 % 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	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 92.6 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: SH - 1 @ 1.5' (H903284-20)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98		
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41		
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96		
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28		
Total BTEX	<0.300	0.300	09/26/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.2 % 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	80.0	16.0	09/26/2019	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: EH - 2 @ 2' (H903284-21)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.3 % 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	144	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 77.7 % 41-142

Surrogate: 1-Chlorooctadecane 82.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: EH - 1 @ 1' (H903284-22)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.1 % 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	272	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: NH - 1 @ 1' (H903284-23)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.57	78.7	2.00	6.98	
Toluene*	<0.050	0.050	09/26/2019	ND	1.55	77.6	2.00	6.41	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.53	76.6	2.00	5.96	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	4.60	76.6	6.00	6.28	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.1 % 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	224	16.0	09/26/2019	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/24/2019	Sampling Date:	09/19/2019
Reported:	09/27/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: WH - 2 @ SURFACE (H903284-24)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2019	ND	1.96	98.0	2.00	4.45	
Toluene*	<0.050	0.050	09/26/2019	ND	1.73	86.7	2.00	3.99	
Ethylbenzene*	<0.050	0.050	09/26/2019	ND	1.73	86.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	09/26/2019	ND	5.31	88.4	6.00	3.67	
Total BTEX	<0.300	0.300	09/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 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	592	16.0	09/26/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/25/2019	ND	192	95.8	200	1.40	
DRO >C10-C28*	<10.0	10.0	09/25/2019	ND	188	94.0	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	09/25/2019	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

FORM-006
Revision 1.0

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

• CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



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

October 08, 2019

JOEL LOWRY

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 10/07/19 12:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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: 10/07/2019
 Reported: 10/08/2019
 Project Name: SRO STATE COM #6H
 Project Number: 11250
 Project Location: COG - RURAL EDDY CO

Sampling Date: 10/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 1 @ 4' (H903398-01)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67		
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736		
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110		
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450		
Total BTEX	<0.300	0.300	10/07/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 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	112	16.0	10/08/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2019	ND	199	99.3	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	199	99.6	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 2 @ 4' (H903398-02)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 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	64.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2019	ND	199	99.3	200	1.79	
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	199	99.6	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND					

Surrogate: 1-Chlorooctane 81.2 % 41-142

Surrogate: 1-Chlorooctadecane 81.4 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 3 @ 4' (H903398-03)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.1 % 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	96.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND					

Surrogate: 1-Chlorooctane 87.7 % 41-142

Surrogate: 1-Chlorooctadecane 89.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 1 @ 2' (H903398-04)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.6 % 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	96.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 87.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/07/2019
 Reported: 10/08/2019
 Project Name: SRO STATE COM #6H
 Project Number: 11250
 Project Location: COG - RURAL EDDY CO

Sampling Date: 10/04/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 2 @ 2' (H903398-05)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 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	144	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/07/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/07/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 77.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 3 @ 2' (H903398-06)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.1 % 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	48.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.6 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 4 @ 2' (H903398-07)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.7 % 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	128	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 89.0 % 41-142

Surrogate: 1-Chlorooctadecane 91.9 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 5 @ 2' (H903398-08)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 81.7 % 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	48.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 80.9 % 41-142

Surrogate: 1-Chlorooctadecane 82.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 6 @ 4' (H903398-09)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 80.2 % 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	96.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/07/2019	Sampling Date:	10/04/2019
Reported:	10/08/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 7 @ 4' (H903398-10)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2019	ND	1.91	95.6	2.00	1.67	
Toluene*	<0.050	0.050	10/07/2019	ND	1.86	93.1	2.00	0.736	
Ethylbenzene*	<0.050	0.050	10/07/2019	ND	1.83	91.4	2.00	0.110	
Total Xylenes*	<0.150	0.150	10/07/2019	ND	5.53	92.1	6.00	0.450	
Total BTEX	<0.300	0.300	10/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.9 % 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	96.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	208	104	200	1.13	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	204	102	200	0.894	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager

31 JO 31 ebeD



ARDINAL 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		ANALYSIS REQUEST													
Project Manager: Daniel Dominguez		P.O. #:															
Address: P.O. Box 301		Company: Concho															
City: Lovington		Attn:															
State: NM		Address:															
Zip: 88260		City:															
Phone #: (575) 396-2378		State:															
Fax #: (575) 396-1429		Phone #:															
Project #: 11250		Zip:															
Project Owner: Concho		Project Name: SRO State Com #6H															
Project Location: Rural Eddy		State:															
Sampler Name: Dustin Crockett		Phone #:															
Fax #:		Zip:															
FOR LAB USE ONLY		DATE		TIME													
Lab I.D.		Sample I.D.		DATE		TIME											
H903358		1		10/4/19		11:00											
F1 @ 4'		C 1		10/4/19		11:10											
F2 @ 4'		C 1		10/4/19		11:20											
F3 @ 4'		C 1		10/4/19		11:45											
W1 @ 2'		C 1		10/4/19		12:00											
W2 @ 2'		C 1		10/4/19		12:15											
W3 @ 2'		C 1		10/4/19		12:30											
W4 @ 2'		C 1		10/4/19		12:45											
W5 @ 2'		C 1		10/4/19		13:00											
W6 @ 4'		C 1		10/4/19		13:15											
W7 @ 4'		C 1		10/4/19		13:15											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
Relinquished By:		Date:		Time:		Received By:											
Relinquished By:		Date:		Time:		Received By:											
Delivered By: (Circle One)		0.3%		#97		CHECKED BY:											
Sampler - UPS - Bus - Other:		Corrected 0.7%		70.		REMARKS:											
FORM-006		Revision 1.0		Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		Rush processing.											
Please email results to daniel@etechenv.com and joe@etechenv.com.																	



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

October 09, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SRO STATE COM #6H

Enclosed are the results of analyses for samples received by the laboratory on 10/08/19 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 4 (H903407-01)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.8 % 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	176	16.0	10/08/2019	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.2 % 41-142

Surrogate: 1-Chlorooctadecane 89.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 5 (H903407-02)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.0 % 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	48.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 8 (H903407-03)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 83.6 % 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	48.0	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 99.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 9 (H903407-04)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79	
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 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	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 10 (H903407-05)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79	
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.3 % 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	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 98.9 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 11 (H903407-06)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79	
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 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	112	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 12 (H903407-07)

BTEX 8021B			mg/kg							
			Analyzed By: BF							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 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	96.0	16.0	10/08/2019	ND	416	104	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40		
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31		
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND						

Surrogate: 1-Chlorooctane 95.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: W 13 (H903407-08)

BTEX 8021B			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79		
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11		
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48		
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47		
Total BTEX	<0.300	0.300	10/08/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.8 % 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	160	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 96.2 % 41-142

Surrogate: 1-Chlorooctadecane 99.0 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 6 (H903407-09)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.90	94.9	2.00	3.79	
Toluene*	<0.050	0.050	10/08/2019	ND	1.82	90.8	2.00	1.11	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	1.78	89.2	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	5.38	89.6	6.00	1.47	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 83.9 % 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	160	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 12 (H903407-10)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	160	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 11 (H903407-11)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 86.6 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 10 (H903407-12)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	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	112	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 95.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 9 (H903407-13)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	144	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 89.7 % 41-142

Surrogate: 1-Chlorooctadecane 92.5 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 8 (H903407-14)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	176	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 85.0 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/08/2019	Sampling Date:	10/07/2019
Reported:	10/09/2019	Sampling Type:	Soil
Project Name:	SRO STATE COM #6H	Sampling Condition:	Cool & Intact
Project Number:	11250 - 09/14/19	Sample Received By:	Tamara Oldaker
Project Location:	COG - RURAL EDDY CO		

Sample ID: F 7 (H903407-15)

BTEX 8021B			mg/kg		Analyzed By: BF				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2019	ND	1.93	96.4	2.00	0.742	
Toluene*	<0.050	0.050	10/08/2019	ND	1.91	95.4	2.00	1.71	
Ethylbenzene*	<0.050	0.050	10/08/2019	ND	2.04	102	2.00	2.51	
Total Xylenes*	<0.150	0.150	10/08/2019	ND	6.04	101	6.00	2.22	
Total BTEX	<0.300	0.300	10/08/2019	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	144	16.0	10/08/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2019	ND	216	108	200	2.40	
DRO >C10-C28*	<10.0	10.0	10/08/2019	ND	208	104	200	1.31	
EXT DRO >C28-C36	<10.0	10.0	10/08/2019	ND					

Surrogate: 1-Chlorooctane 83.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.


Celey D. Keene, Lab Director/Quality Manager

ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG						P.O. #:									
Project Manager: Lance Crenshaw						Company: COG									
Address:						City:									
State:						Attn:									
Zip:						Address:									
Phone #:						Fax #:									
Project #: 11250						Project Owner:									
Project Name: SRO State Com #6H						City:									
Project Location:						State:									
						Zip:									
Sample Name: Tyler Griffin						Phone #:									
						Fax #:									
FOR LAB USE ONLY							PRESERV.								
							SAMPLING								
Lab I.D.							Chlorides								
Sample I.D.							TPH 8015 M								
(G)RAB OR (C)OMP.							BTEX								
# CONTAINERS							Texas TPH								
GROUNDWATER							Complete Cations/Anions								
WASTEWATER							TDS								
SOIL															
OIL															
SLUDGE															
OTHER :															
ACID/BASE:															
ICE / COOL															
OTHER :															
DATE							TIME								
F4	G	1					✓	✓	✓						
F5	G	1					✓	✓	✓						
W8	G	1					✓	✓	✓						
W9	G	1					✓	✓	✓						
W10	G	1					✓	✓	✓						
W11	G	1					✓	✓	✓						
W12	G	1					✓	✓	✓						
W13	G	1					✓	✓	✓						
F6	G	1					✓	✓	✓						
F12	G	1					✓	✓	✓						

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

Relinquished By:		Date: 10-9	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 0815		Signature: [Handwritten]		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Date:		Received By:		REMARKS:	
Time:				email results pm@etechenv.com	

Delivered By: (Circle One) -30c #97 Sample Condition Cool Intact ☒ Yes ☐ No CHECKED BY: (Initials) TS-

Sampler - UPS - Bus - Other: Completed - 200c

PUSH!!

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

61 jo 61 ebe d

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG		P.O. #:		BILL TO										ANALYSIS REQUEST																											
Project Manager: Lance Crenshaw		Company: COG																																							
Address:		Attn:																																							
City:		State:		Zip:																																					
Phone #:		Address:																																							
Project #: 11250		City:		State:		Zip:																																			
Project Name: SRO State Com #6H		Phone #:																																							
Project Location:		Fax #:																																							
Sampler Name: Tyler Griffin																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chlorides		TPH 8015 M		BTEX		Texas TPH		Complete Cations/Anions		TDS	
H903407				G		1																				10/7/19		10:00		✓		✓		✓							
11 F11				G		1																				10/7/19		10:20		✓		✓		✓							
12 F10				G		1																				10/7/19		10:30		✓		✓		✓							
13 F9				G		1																				10/7/19		11:00		✓		✓		✓							
14 F8				G		1																				10/7/19		12:00		✓		✓		✓							
15 F7				G		1																																			

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

Relinquished By:	Date: 10/9	Received By:	Date: 10/9
Relinquished By:	Time: 0815	Received By:	Time: 10:00
Delivered By: (Circle One) -3.0°C	#97	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: Connected -3.4°C		Cool Intact	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476			

Phone Result: ☐ Yes ☒ No Add'l Phone #:
 Fax Result: ☐ Yes ☒ No Add'l Fax #:
 REMARKS: email results pm@etechnv.com Ruski!

Appendix D

Photographic Log

Photographic Log

Photo Number: 1
Photo Direction: South
Photo Description: Veiw of Surface Staining from the Initial Release



Photo Number: 2
Photo Direction: Northwest
Photo Description: Veiw of Surface Staining from the Initial Release



Photographic Log

Photo Number: 3
Photo Direction: North
Photo Description: Veiw of Portion of the Excavated area.



Photo Number: 4
Photo Direction: Southeast
Photo Description: Veiw of Portion of the Excavated area.



Photographic Log

