

# Site Assessment Report and Proposed Remediation Workplan

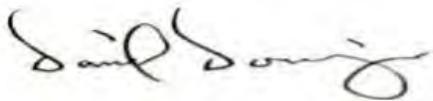
## Goodnight Midstream Permian, LLC Serrano

Lea County, New Mexico  
Unit Letter "C", Section 28, Township 23 South, Range 35 West  
Latitude 32.279828 North, Longitude 103.373337 West  
NMOCD Reference No. 1RP-5610

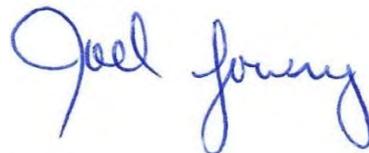
Prepared By:

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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC, has prepared this Site Assessment Report and Proposed Remediation Plan for the Release Site known as the Serrano. Details of the release are summarized below:

<b>Location of Release Source</b>				
Latitude: <u>32.279828</u>		Longitude: <u>-103.373337</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Serrano</u>		Site Type: <u>SWD</u>		
Date Release Discovered: <u>6/28/2019</u>		API # (if applicable):		
Unit Letter	Section	Township	Range	County
"C"	28	23S	35W	Lea
Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Private (Name <u>Limestone Livestock</u> )				
<b>Nature and Volume of Release</b>				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>768</u>		Volume Recovered (bbls) <u>100</u>	
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: A hose break caused the release. Entire release was contained within primary and secondary containment on the pad.				
<b>Initial Response</b>				
<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?	~ 230 Ft.	
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 type="checkbox"/> Yes	<input checked="" 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
~ 230 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

## 4.0 INITIAL SITE ASSESSMENT

Upon discovering the release, a surface scrape was conducted within the affected area in an effort to limit the migration of contaminants pending further remediation.

Between **July 3** and **July 15, 2019**, Etech conducted an initial site assessment. During the initial site assessment, a series of hand-augered soil bores (**SP #1 through SP #32**) were advanced within the release margins in an effort to determine the vertical extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab® chloride test kit. Based on the volume of the release, hand-augered soil bores were advanced until field test results suggested concentrations of chloride were below 600 mg/kg. A "Site & Sample Location Map" is provided as Figure 3. Field data and soil profile logs, if applicable, are provided as Appendix B.

In addition, hand-augered soil bores (**NH 1, NH 2, SH 1, SH 2, EH 1, EH 2, WH 1 and WH 2**) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the hand-augered soil bores, field soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, **eighty (80)** delineation soil samples were submitted to the laboratory for analysis of BTEX, TPH and/or Chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond 1 Ft. bgs and the horizontal extent of affected soil impacted above the NMOCD Closure Criteria was adequately defined. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C.

## 5.0 PROPOSED REMEDIATION PLAN

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

- Utilizing mechanical equipment, excavate impacted soil affected above the NMOCD Closure Criteria in the areas characterized by sample points SP #3 through SP #5, SP #8 through SP #12, SP #14, SP #15, SP #18 through SP #20 and SP #23 through SP #30.
- Impacted soil adjacent to and/or beneath active above ground equipment will be excavation by hand to the maximum extent practicable.
- Excavated material will be temporarily stockpiled on-site, then transported to an NMOCD-approved disposal facility.
- Upon excavating impacted soil affected above the NMOCD Closure Criteria, collect the requisite excavation confirmation soil samples.
- Upon receiving laboratory analytical results from excavation confirmation soil samples, backfill the excavated area with locally sourced, non-impacted material.
- Excavation backfill will be compacted and graded to meet the needs of the facility.
- Upon completion of remediation activities, prepare a Remediation Summary and Site Closure Request detailing remediation activities and the results of confirmation soil samples.

## 6.0 SAMPLING PLAN

Upon completion of excavation activities, representative five-point composite excavation confirmation soil samples will be collected from the excavation sidewalls in each cardinal direction, representing no more than 50 linear ft. A minimum of **one (1)** representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every **750 square feet**. Additional, discrete grab samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

## **7.0 TIMELINE AND ESTIMATED VOLUME OF SOIL TO BE REMEDIATED**

Remediation activities are expected to be completed **within 90 days** of receiving necessary approval(s) of the Site Assessment Summary and Proposed Remediation Plan. Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment it is estimated that approximately **2,770 cubic yards** is in need of removal.

## **8.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN**

Areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. The affected area was limited to an active caliche production pad; re-vegetation will be conducted at final reclamation upon decommissioning and abandoning the facility.

## **9.0 LIMITATIONS**

Etech Environmental & Safety Solutions, Inc., has prepared this Site Assessment Report and Proposed Remediation Plan 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 Goodnight Midstream Permian, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or Goodnight Midstream Permian, LLC.

## **10.0 DISTRIBUTION**

***Goodnight Midstream Permian, LLC***

*5910 N Central Expy*

*Dallas, TX 75206*

***New Mexico Energy, Minerals and Natural Resources Department***

*Oil Conservation Division, District 1*

*1625 French Drive*

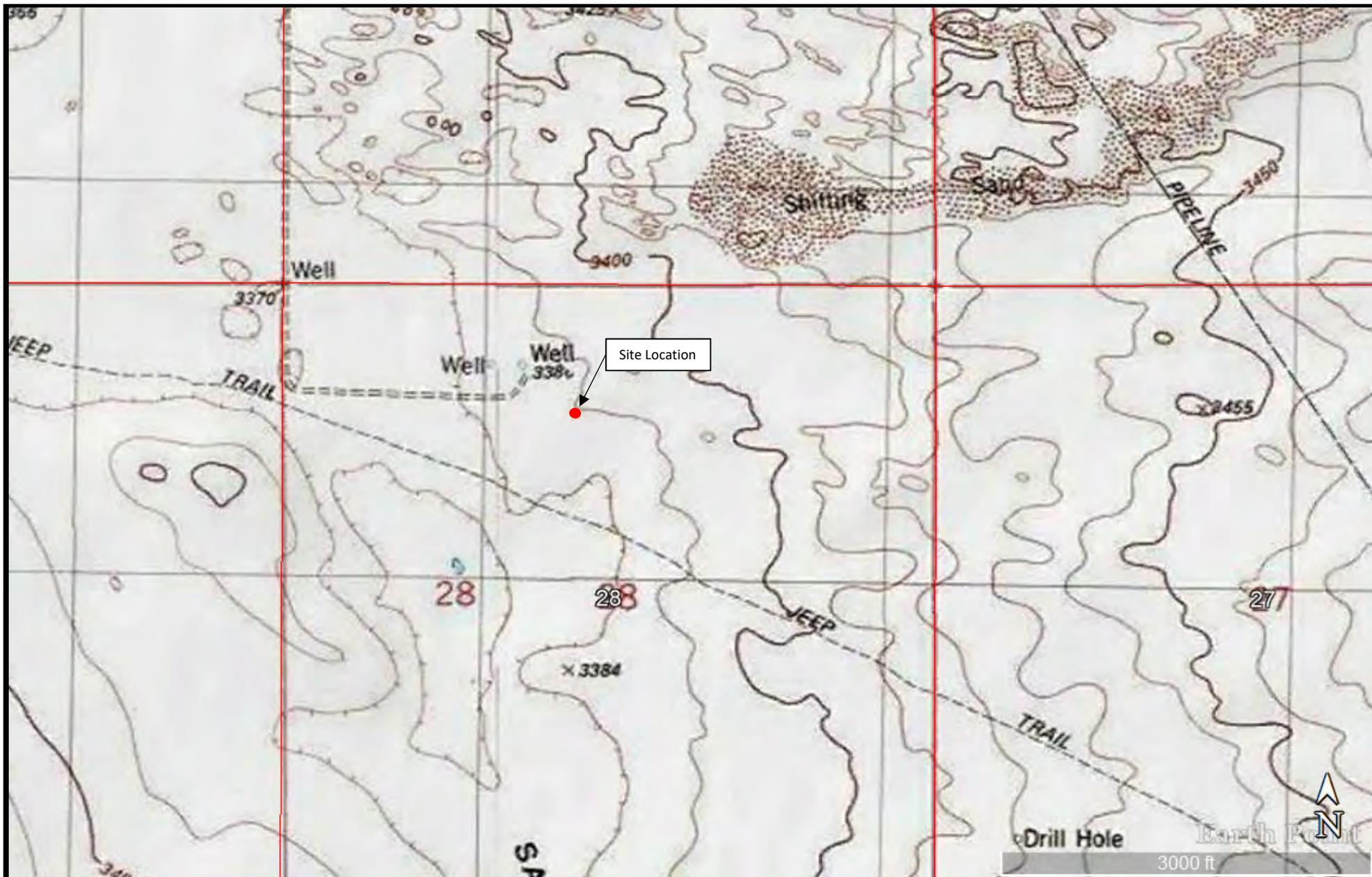
*Hobbs, NM 88240*

***Etech Environmental & Safety Solutions, Inc***

*3100 Plains Highway*

*Lovington, NM 88260*

Figure 1  
Topographic Map



Legend:  
 ● Site Location

**Figure 1**  
 Topographic Map  
 Goodnight Midstream Permian, LLC  
 Serrano  
 GPS: 32.279828, -103.373337  
 Lea County

**eTECH**   
 Environmental & Safety Solutions, Inc.  
 Drafted: Checked: jwl Date: 8/23/19

Figure 2  
Aerial Proximity Map



**Legend:**

<span style="color: red;">●</span> Site Location	 Non-Industrial Building
<span style="color: blue;">○</span> Fresh Water Well	 Subsurface Mine
 100-Year Floodplain	<span style="color: red;">○</span> 1/2 Mile Radius
 High/Critical Karst	

**Figure 2**  
 Aerial Proximity Map  
 Goodnight Midstream Permian, LLC  
 Serrano  
 GPS: 32.279828, -103.373337  
 Lea County

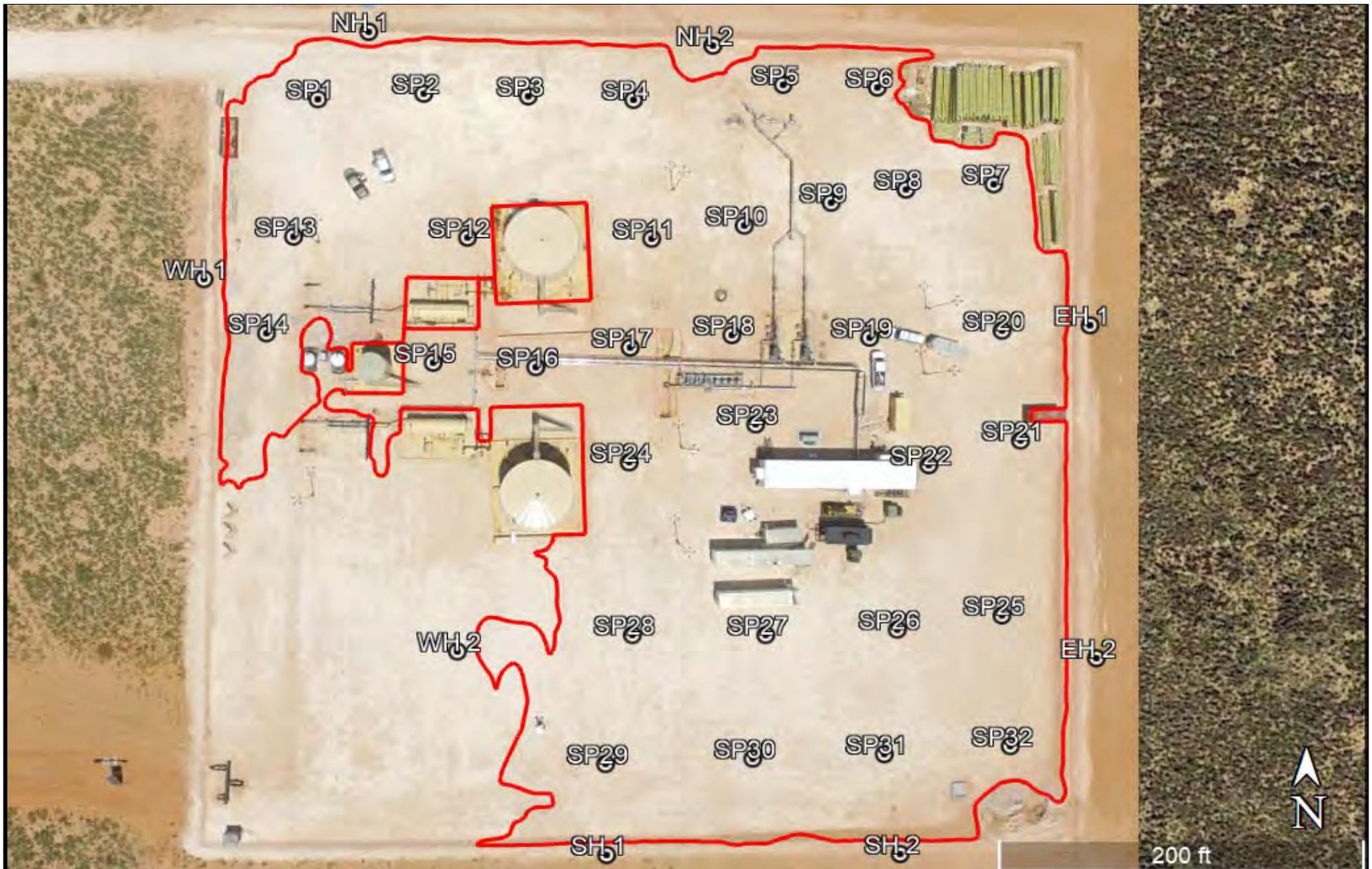


**Environmental & Safety Solutions, Inc.**



Drafted:                      Checked: jwl                      Date: 8/23/19

Figure 3  
Site and Sample Location Map



**Legend:**

⊙	Sample Point
○	Affected Area

**Figure 3**  
 Site and Sample Location Map  
 Goodnight Midstream Permian, LLC  
 Serrano  
 GPS: 32.279828, -103.373337  
 Lea County



Drafted: \_\_\_\_\_      Checked: jwl      Date: 8/26/19

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

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**  
**GOODNIGHT MIDSTREAM PERMIAN, LLC.**  
**SERRANO**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	FIELD CHLORIDE (mg/Kg)	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				4500 Cl-B CHLORIDE (mg/Kg)
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/Kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	
SP 1	Surface	03-Jul-19	Excavated	14,808	--	--	--	--	--	--	--	--	--	13,000
	1'	08-Jul-19	In-Situ	<108	--	--	--	--	--	--	--	--	--	--
	2'	08-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 2	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	15,200
	1'	08-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP 3	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>26,000</b>
	1'	08-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP 4	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>47,200</b>
	1'	08-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	128
SP 5	Surface	03-Jul-19	Excavated	27,680	--	--	--	--	--	--	--	--	--	<b>42,400</b>
	1'	08-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 6	Surface	03-Jul-19	Excavated	6,560	--	--	--	--	--	--	--	--	--	7,600
	1'	08-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP 7	Surface	03-Jul-19	Excavated	6,560	--	--	--	--	--	--	--	--	--	8,660
	1'	08-Jul-19	In-Situ	164	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 8	Surface	03-Jul-19	Excavated	20,520	--	--	--	--	--	--	--	--	--	<b>30,800</b>
	1'	08-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 9	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>46,400</b>
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 10	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	<b>31,200</b>
	1'	08-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 11	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>88,800</b>
	1'	08-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP 12	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>26,000</b>
	1'	08-Jul-19	In-Situ	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 13	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	<b>88,000</b>
	1'	08-Jul-19	In-Situ	1,728	--	--	--	--	--	--	--	--	--	--
	2'	08-Jul-19	In-Situ	1,728	--	--	--	--	--	--	--	--	--	--
	3'	08-Jul-19	In-Situ	1,728	--	--	--	--	--	--	--	--	--	--
	4'	08-Jul-19	In-Situ	1,728	--	--	--	--	--	--	--	--	--	--
	5'	08-Jul-19	In-Situ	1,728	--	--	--	--	--	--	--	--	--	--
	8'	08-Jul-19	In-Situ	364	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	80
SP 14	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	<b>22,600</b>
	1'	15-Jul-19	In-Situ	556	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	352
SP15	Surface	03-Jul-19	Excavated	16,356	--	--	--	--	--	--	--	--	--	<b>30,400</b>
	1'	15-Jul-19	In-Situ	164	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	176

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**  
**GOODNIGHT MIDSTREAM PERMIAN, LLC.**  
**SERRANO**

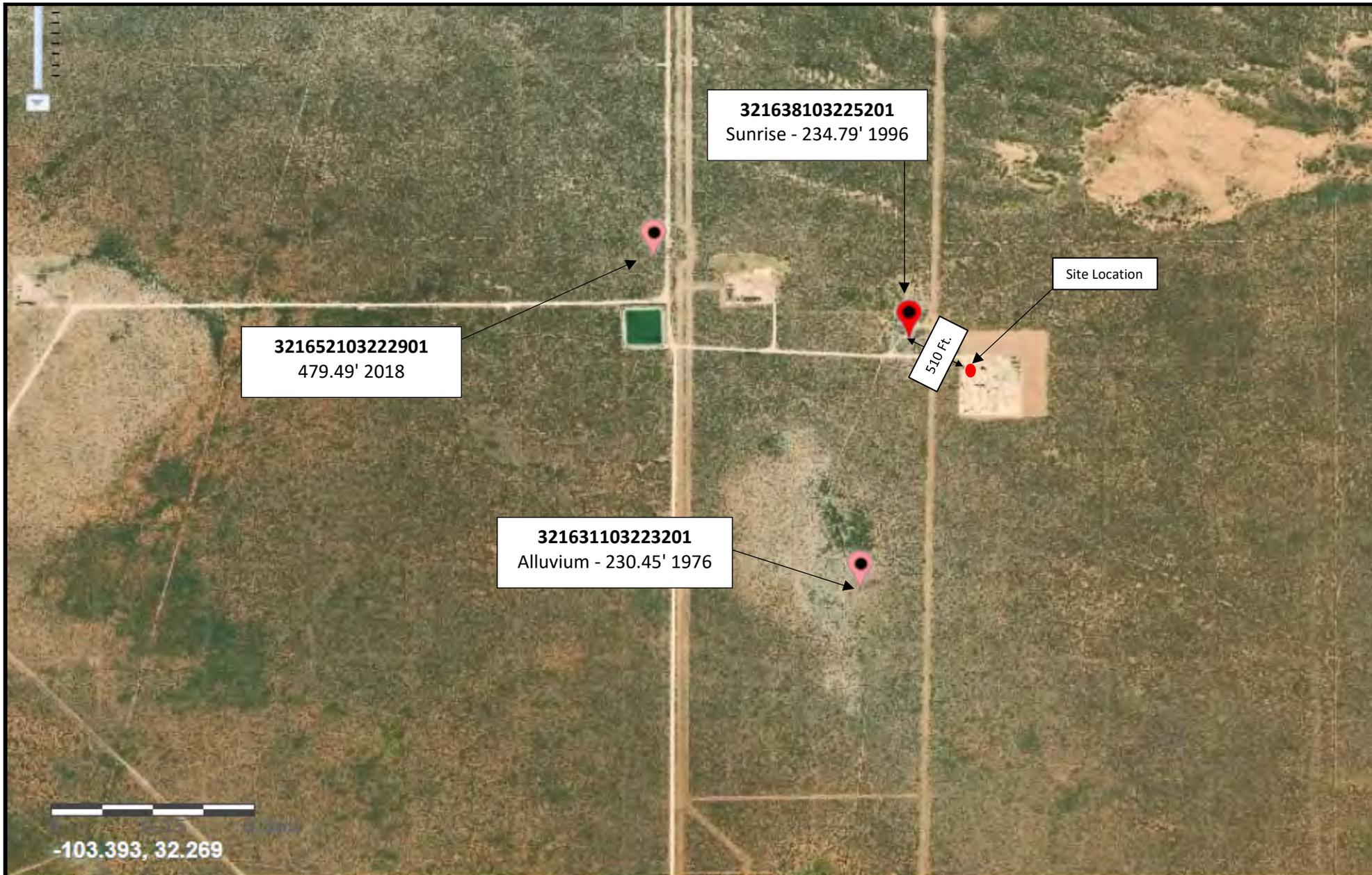
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	FIELD CHLORIDE (mg/Kg)	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				4500 Cl-B
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/Kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
SP16	Surface	03-Jul-19	Excavated	13,484	--	--	--	--	--	--	--	--	--	9,800
	1'	15-Jul-19	In-Situ	2,428	--	--	--	--	--	--	--	--	--	--
	2'	15-Jul-19	In-Situ	280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP 17	Surface	03-Jul-19	Excavated	604	--	--	--	--	--	--	--	--	--	560
	1'	15-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 18	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	53,600
	1'	15-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 19	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	48,000
	1'	15-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	608
SP 20	Surface	03-Jul-19	Excavated	20,520	--	--	--	--	--	--	--	--	--	23,000
	1'	15-Jul-19	In-Situ	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP 21	Surface	03-Jul-19	Excavated	14,808	--	--	--	--	--	--	--	--	--	17,200
	1'	15-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 22	Surface	03-Jul-19	Excavated	2,280	--	--	--	--	--	--	--	--	--	3,440
	1'	15-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 23	Surface	03-Jul-19	Excavated	12,340	--	--	--	--	--	--	--	--	--	24,800
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
SP 24	Surface	03-Jul-19	Excavated	>27680	--	--	--	--	--	--	--	--	--	32,400
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 25	Surface	03-Jul-19	Excavated	27,680	--	--	--	--	--	--	--	--	--	46,400
	1'	15-Jul-19	In-Situ	364	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 26	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	40,000
	1'	15-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
SP 27	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	78,400
	1'	15-Jul-19	In-Situ	280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.4	33.5	52	16
SP 28	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	26,800
	1'	15-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP 29	Surface	03-Jul-19	Excavated	13,484	--	--	--	--	--	--	--	--	--	15,600
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
SP 30	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	34,400
	1'	15-Jul-19	In-Situ	280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
SP 31	Surface	03-Jul-19	Excavated	>27,680	--	--	--	--	--	--	--	--	--	92,800
	1'	15-Jul-19	In-Situ	716	--	--	--	--	--	--	--	--	--	--
	2'	15-Jul-19	In-Situ	408	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	80
SP 32	Surface	03-Jul-19	Excavated	7,076	--	--	--	--	--	--	--	--	--	10,600
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32

**TABLE 1**  
**CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL**  
**GOODNIGHT MIDSTREAM PERMIAN, LLC.**  
**SERRANO**

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	FIELD CHLORIDE (mg/Kg)	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				4500 Cl-B
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/Kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/Kg)	ORO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
NH 1	Surface	03-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
	1'	15-Jul-19	In-Situ	164	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	64
NH 2	Surface	03-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	1'	15-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SH 1	Surface	03-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	1'	15-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
SH 2	Surface	03-Jul-19	In-Situ	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	128
	1'	15-Jul-19	In-Situ	108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
EH 1	Surface	03-Jul-19	In-Situ	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	96
	1'	15-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	<16.0
EH 2	Surface	03-Jul-19	In-Situ	136	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	48
	1'	15-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
WH 1	Surface	03-Jul-19	In-Situ	364	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	144
	1'	15-Jul-19	In-Situ	<108	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	32
WH 2	Surface	03-Jul-19	In-Situ	556	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	352
	1'	15-Jul-19	In-Situ	200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<30.0	16
<b>NMOCD Regulatory Standard</b>					<b>10</b>				<b>50</b>				<b>2,500</b>	<b>20,000</b>

-- = Not analyzed.

Appendix A  
Depth to Groundwater Information



**Legend:**

	Site Location
	USGS Well

**Figure 5**  
 USGS Well Proximity Map  
 Goodnight Midstream Permian, LLC  
 Serrano  
 GPS: 32.279828, -103.373337  
 Lea County


  
**Environmental & Safety Solutions, Inc.**

Drafted:                      Checked: jwl                      Date: 8/23/19



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(R=POD has been replaced,

O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">CP 01099 POD2</a>	CP	LE	64	16	4	1	1	28	23S	35E	652471	3572934	784	750	120 630

Average Depth to Water: **120 feet**

Minimum Depth: **120 feet**

Maximum Depth: **120 feet**

**Record Count:** 1

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 653187.45

**Northing (Y):** 3572614.72

**Radius:** 1608

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/23/19 10:56 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)			(NAD83 UTM in meters)				
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
221C0	CP 01099 POD2	1	1	1	28	23S	35E	652471	3572934 
x									
<b>Driller License:</b>	1706	<b>Driller Company:</b>		ELITE DRILLERS CORPORATION					
<b>Driller Name:</b>	WALLACE, BRYCE J.LEE.NER								
<b>Drill Start Date:</b>	01/10/2019	<b>Drill Finish Date:</b>		01/13/2019		<b>Plug Date:</b>			
<b>Log File Date:</b>	01/24/2019	<b>PCW Rev Date:</b>		<b>Source:</b> Shallow					
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b> 90 GPM					
<b>Casing Size:</b>	7.60	<b>Depth Well:</b>		750 feet		<b>Depth Water:</b> 120 feet			
x									
<b>Water Bearing Stratifications:</b>		<b>Top</b>	<b>Bottom</b>	<b>Description</b>					
		115	220	Sandstone/Gravel/Conglomerate					
		580	600	Sandstone/Gravel/Conglomerate					
		600	740	Other/Unknown					
x									
<b>Casing Perforations:</b>		<b>Top</b>	<b>Bottom</b>						
		460	750						
x									

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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Groundwater levels for the Nation

**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list = 

- 321652103222901

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 321652103222901 23S.35E.28.124**

Lea County, New Mexico  
Latitude 32°16'51.8", Longitude 103°22'29.1" NAD83  
Land-surface elevation 3,388 feet above NAVD88  
The depth of the well is 5,300 feet below land surface.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
2012-11-29	14:50 MST	m	536.09				2		T	USGS
2013-06-24	14:40 MDT	m	529.82				2		T	USGS
2013-09-09	13:45 MDT	m	527.73				2		T	USGS
2013-12-02	13:20 MST	m	526.05				2		T	USGS
2014-03-17	12:55 MDT	m	525.52				2		T	USGS
2014-06-30	13:35 MDT	m	520.42				2		T	USGS
2014-09-29	13:30 MDT	m	520.81				2		T	USGS
2014-12-01	13:45 MST	m	519.81				2		T	USGS
2015-03-27	10:00 MDT	m	517.51				2		T	USGS
2015-05-18	13:10 MDT	m	515.97				2		T	USGS
2015-09-28	12:55 MDT	m	510.56				2		T	USGS
2015-12-01	12:55 MST	m	509.01				2		T	USGS
2016-03-21	10:45 MDT	m	508.91				2		T	USGS
2016-06-29	14:00 MDT	m	508.99				2		T	USGS
2016-09-21	12:05 MST	m	506.50				2		T	USGS
2016-12-12	12:10 MST	m	503.34				2		V	USBLM
2017-03-09	12:45 MST	m	499.45				2		V	USBLM
2017-06-12	11:55 MDT	m	495.72				2		V	USBLM
2017-10-19	16:15 MDT	m	490.47				2		V	USBLM
2017-12-14	13:59 MST	m	490.40				2		V	USBLM
2018-03-26	13:37 MDT	m	486.38				2		V	USBLM
2018-06-25	12:48 MDT	m	484.93				2		V	USBLM

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
2018-10-29	14:50 MDT	m	479.49			2		V	USBLM	

Explanation

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	T	Electric-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Measuring agency	USBLM	U.S. Bureau of Land Management
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



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0.68 0.62 nadww01



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**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list = 

- 321631103223201

Minimum number of levels = 1

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**USGS 321631103223201 23S.35E.28.12321**

Lea County, New Mexico

Latitude 32°16'31", Longitude 103°22'32" NAD27

Land-surface elevation 3,369 feet above NAVD88

The depth of the well is 242 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1967-10-17		D	233.71				2		U	
1976-01-23		D	230.43				2		U	

**Explanation**

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list = 

- 321638103225201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 321638103225201 23S.35E.28.11111**

Lea County, New Mexico  
Latitude 32°16'58", Longitude 103°22'51" NAD27  
Land-surface elevation 3,370.00 feet above NGVD29  
The depth of the well is 795 feet below land surface.  
This well is completed in the Sunrise Formation (231SNRS) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1967-10-17		D	230.67				2		U	
1968-06-11		D	230.26				2		U	
1970-12-09		D	230.02				2		U	
1976-01-23		D	231.57				2		U	
1981-03-30		D	233.10				2		U	
1986-04-17		D	233.11				2		U	
1991-05-16		D	233.30				2		U	
1996-03-13		D	234.79				2		S	

**Explanation**

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

---

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0.49 0.45 nadww01

Appendix B  
Field Data and Soil Profile Logs

Goodnight midstream Serrano 01 03 19

SP @ # 1 surface -	14,808	
SP @ # 2 surface -	< 27,680	11:43
SP @ # 3 surface -	< 27,680	11:46
SP @ # 4 surface -	< 27,680	11:50
SP @ # 5 surface -	27,680	11:52
SP @ # 6 surface -	6,560	11:55
SP @ # 7	6,560	11:58
SP @ # 8	20,520	12:06
SP @ # 9	< 27,680	12:08
SP @ # 10	23,508	12:09
SP @ # 11	< 27,680	12:11
SP @ # 12	< 27,680	12:11
SP @ # 13	< 27,680	12:15
SP @ # 14	23,508	12:22
SP @ # 15	16,354	12:26
SP @ # 16	13,484	12:28
SP @ # 17	> 1,184	12:31
SP @ # 18	23,508	12:32
SP @ # 19	< 27,680	12:34
SP @ # 20	20,520	12:34
SP @ # 21	14,808	12:44
SP @ # 22	2,280	12:45
SP @ # 23	12,340	12:47
SP @ # 24	< 27,680	12:49
SP @ # 25	27,680	12:50
SP @ # 26	< 27,680	12:51
SP @ # 27	< 27,680	12:57
SP @ # 28	23,508	12:59
SP @ # 29	13,484	1:00
SP @ # 30	23,508	1:02
SP @ # 31	< 27,680	1:05
SP @ # 32	7,074	1:10

way  
604

1:10  
1:20

	Goodnight midstream	Serrano	01 08 19
SP #1e1'-	< 1,184	< 108	8:45
SP #1e2'-	< 1,184	< 108	8:49
SP #2e1'-	< 1,184	< 108	9:00
SP #3e1'-	< 1,184	< 108	9:26
SP #4e1'-	< 1,184	< 108	9:42
SP #5e1'-	< 1,184	< 108	10:01
SP #6e1'-		136	10:22
SP #7e1'-		164	10:37
SP #8e1'-		240	11:11
SP #9e1'-		240	11:34
SP #10e1'-		136	11:30
SP #11e1'-		320	12:40
SP #12e1'-		1,728	12:46
SP #13e1'-		1,728	1:17
SP #13e2'-		1,728	1:30
SP #13e3'-		1,728	1:35
SP #13e4'-		1,728	1:39
SP #13e5'-		456	1:55
SP #13e6'-		364	1:56
SP #13e8'-			

Goodnight midstream Serrano 07.11.19

SP #29 @ 1' -	108	8:10
SP #31 @ 1' -	716	8:18
SP #32 @ 1' -	108	8:27
SP #31 @ 2' -	408	8:34
SP #30 @ 1' -	280	9:41
SP #28 @ 1' -	136	10:29
SP #27 @ 1' -	280	11:15
SP #26 @ 1' -	240	12:11
SP #25 @ 1' -	344	12:26
SP #24 @ 1' -	108	1:20

# Goodnight midstream

Serrano

01.12.19

SP # 22 @ 1' -	136	8:35
SP # 23 @ 1' -	108	8:50
SP # 21 @ 1' -	240	9:53
SP # 20 @ 1' -	200	10:56
SP # 19 @ 1' -	240	11:20
SP # 18 @ 2' -	280	12:13
SP # WH1 @ surface -	364	1:08
SP # WH1 @ 1' -	<108	1:38
SP # NH1 @ surface -	<108	2:08
SP # NH1 @ 1' -	164	2:20
SP # NH2 @ surface -	136	3:00
SP # NH2 @ 1' -	<108	3:10

# Goodnight midstream

Serrano 07.15.19

SP # EH1 @ surface -	200	8:00
SP # EH1 @ 1' -	136	8:30
SP # EH2 @ surface -	136	9:00
SP # EH2 @ 1' -	< 108	9:30
SP # SH1 @ surface -	< 108	10:00
SP # SH1 @ 1' -	< 108	10:30
SP # WH2 @ surface -	556	11:00
SP # WH2 @ 1' -	200	11:30
SP # SH2 @ surface -	240	12:00
SP # SH2 @ 1' -	108	12:50
SP # 14 @ surface -	> 2428	1:30
SP # 14 @ 1' -	556	2:00



# Soil Profile

Date: 7/3/19 7/8 7/11 7/12 7/15

Project: Serrano

Project Number: 10786 Latitude: 32.279828 Longitude: -103.373337

Depth (ft. bgs)

Description

Depth (ft. bgs)	Description
1	Impert Fill, Calicho Pad
2	
3	
TD 4	Red Sand
5	
6	
7	
8	
9	
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Appendix C  
Laboratory Analytical Reports



July 11, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 07/08/19 9:05.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 1 (H902305-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>13000</b>	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 2 (H902305-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>15200</b>	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 3 (H902305-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>26000</b>	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 4 (H902305-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>47200</b>	16.0	07/10/2019	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 5 (H902305-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	42400	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 6 (H902305-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 7 (H902305-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 8 (H902305-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30800	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 9 (H902305-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	46400	16.0	07/10/2019	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 10 (H902305-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31200	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 11 (H902305-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	88800	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 12 (H902305-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 13 (H902305-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	88000	16.0	07/10/2019	ND	416	104	400	0.00	

**Sample ID: SP 14 (H902305-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	07/10/2019	ND	400	100	400	3.92	QM-07

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Celey D. Keene, Lab Director/Quality Manager

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 15 (H902305-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 16 (H902305-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 17 (H902305-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 18 (H902305-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	53600	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 19 (H902305-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48000	16.0	07/10/2019	ND	400	100	400	3.92	

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

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 20 (H902305-20)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23000	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 21 (H902305-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 22 (H902305-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 23 (H902305-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 24 (H902305-24)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32400	16.0	07/10/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 25 (H902305-25)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>46400</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 26 (H902305-26)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>40000</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 27 (H902305-27)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>78400</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 28 (H902305-28)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>26800</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 29 (H902305-29)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>15600</b>	16.0	07/10/2019	ND	400	100	400	3.92	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/08/2019	Sampling Date:	07/03/2019
Reported:	07/11/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 30 (H902305-30)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>34400</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 31 (H902305-31)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>92800</b>	16.0	07/10/2019	ND	400	100	400	3.92	

**Sample ID: SP 32 (H902305-32)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>10600</b>	16.0	07/10/2019	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL 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: <u>Etech Environmental</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Daniel Dominguez</u>		P.O. #:		Chlorides TPH 8015 M BTEX											
Address: <u>3100 Plains Hwy</u>		Company:													
City: <u>Lovington</u> State: <u>NM</u> Zip: <u>88260</u>		Attn:													
Phone #: Fax #:		Address:													
Project #: Project Owner: <u>Goodnight</u>		City:													
Project Name: <u>Serrano</u>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <u>Daniel</u>		Fax #:													

Lab I.D.	Sample I.D.	GIRAB OR (COMP. # CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
<u>H902305</u>														
<u>1</u>	<u>SP1</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>2</u>	<u>SP2</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>3</u>	<u>SP3</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>4</u>	<u>SP4</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>5</u>	<u>SP5</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>6</u>	<u>SP6</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>7</u>	<u>SP7</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>8</u>	<u>SP8</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>9</u>	<u>SP9</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>
<u>10</u>	<u>SP10</u>	<u>G 1</u>			<u>X</u>				<u>X</u>			<u>7/3/19</u>		<u>X</u>

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Relinquished By: <u>Dan Dominguez</u>	Date: <u>7/3/19</u> Time: <u>9:05</u>	Received By: <u>Juanara Aldate</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>-0.9c H97</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>TO.</u>	
REMARKS: email results! <u>DanielD@etechenv.com</u>				

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









July 15, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 07/09/19 15:47.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 1 (H902340-01)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85		
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913		
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512		
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696		
Total BTEX	<0.300	0.300	07/10/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	07/10/2019	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	07/10/2019	ND	202	101	200	7.22		
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24		
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND						

*Surrogate: 1-Chlorooctane 117 % 41-142*
*Surrogate: 1-Chlorooctadecane 120 % 37.6-147*

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 2 (H902340-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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
<b>Chloride</b>	<b>48.0</b>	16.0	07/10/2019	ND	400	100	400	0.00	QR-03

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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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\*=Accredited Analyte

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Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 3 (H902340-03)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	07/10/2019	ND	400	100	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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 4 (H902340-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	07/10/2019	ND	400	100	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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 5 (H902340-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2019	ND	400	100	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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 6 (H902340-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	07/10/2019	ND	400	100	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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 7 (H902340-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2019	ND	400	100	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	07/10/2019	ND	202	101	200	7.22	
DRO >C10-C28*	<10.0	10.0	07/10/2019	ND	202	101	200	5.24	
EXT DRO >C28-C36	<10.0	10.0	07/10/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 8 (H902340-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/10/2019	ND	400	100	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	07/11/2019	ND	204	102	200	4.89	
DRO >C10-C28*	<10.0	10.0	07/11/2019	ND	219	109	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	07/11/2019	ND					

Surrogate: 1-Chlorooctane 97.5 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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\*=Accredited Analyte

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 Fax To: (575) 396-1429

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 10 (H902340-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/10/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/10/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/10/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/10/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/10/2019	ND	400	100	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	07/11/2019	ND	204	102	200	4.89	
DRO >C10-C28*	<10.0	10.0	07/11/2019	ND	219	109	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	07/11/2019	ND					

Surrogate: 1-Chlorooctane 97.7 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 11 (H902340-10)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/11/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/11/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/11/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 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
<b>Chloride</b>	<b>16.0</b>	16.0	07/10/2019	ND	400	100	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	07/11/2019	ND	204	102	200	4.89	
DRO >C10-C28*	<10.0	10.0	07/11/2019	ND	219	109	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	07/11/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 12 (H902340-11)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/11/2019	ND	2.15	108	2.00	2.85	
Toluene*	<0.050	0.050	07/11/2019	ND	2.16	108	2.00	0.913	
Ethylbenzene*	<0.050	0.050	07/11/2019	ND	2.03	101	2.00	0.512	
Total Xylenes*	<0.150	0.150	07/11/2019	ND	6.13	102	6.00	0.696	
Total BTEX	<0.300	0.300	07/11/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/10/2019	ND	400	100	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	07/12/2019	ND	204	102	200	4.89	
DRO >C10-C28*	<10.0	10.0	07/12/2019	ND	219	109	200	8.98	
EXT DRO >C28-C36	<10.0	10.0	07/12/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/09/2019	Sampling Date:	07/08/2019
Reported:	07/15/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP 13 (H902340-12)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2019	ND	2.09	105	2.00	0.678		
Toluene*	<0.050	0.050	07/11/2019	ND	2.09	104	2.00	2.09		
Ethylbenzene*	<0.050	0.050	07/11/2019	ND	1.98	98.9	2.00	0.643		
Total Xylenes*	<0.150	0.150	07/11/2019	ND	5.96	99.3	6.00	0.617		
Total BTEX	<0.300	0.300	07/11/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>80.0</b>	16.0	07/10/2019	ND	400	100	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	07/12/2019	ND	204	102	200	4.89		
DRO >C10-C28*	<10.0	10.0	07/12/2019	ND	219	109	200	8.98		
EXT DRO >C28-C36	<10.0	10.0	07/12/2019	ND						

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report







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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

Company Name: Etech Environmental		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																		
Project Manager: Daniel Dominguez		P.O. #:																						
Address: PO Box 896		Company:																						
City: Lovington State: NM Zip: 88260		Attn:																						
Phone #: 575-396-2378 Fax #:		Address:																						
Project #: 10768 Project Owner: Goodnight Midstream		City:																						
Project Name: Serrano		State: Zip:																						
Project Location:		Phone #:																						
Sampler Name: Catalina Villa		Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021							
H962340																								
11	SP12	G	1		X					X			7/8/19	12:40	X	X	X							
12	SP13	G	1		X					X			7/8/19	13:56	X	X	X							

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Relinquished By: Catalina Villa	Date: 7-9-19	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 10:49		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: [Signature]	Date: 7-9-19	Received By: [Signature]	REMARKS:	
	Time: 3:47 pm		email results to danield@etechenv.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: 4.9c #97	Cool Intact	[Signature]		
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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

July 25, 2019

DANIEL DOMINGUEZ

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: SERRANO

Enclosed are the results of analyses for samples received by the laboratory on 07/18/19 16:27.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 9 @ 1' (H902482-01)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	07/19/2019	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	07/20/2019	ND	226	113	200	0.171	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	219	109	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

*Surrogate: 1-Chlorooctane 86.5 % 41-142*
*Surrogate: 1-Chlorooctadecane 93.9 % 37.6-147*

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 14 @ 1' (H902482-02)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/19/2019	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	07/20/2019	ND	226	113	200	0.171	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	219	109	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 88.1 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 15 @ 1' (H902482-03)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/19/2019	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 16 @ 2' (H902482-04)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	07/19/2019	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 17 @ 1' (H902482-05)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/19/2019	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 18 @ 1' (H902482-06)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/19/2019	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 19 @ 1' (H902482-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>608</b>	16.0	07/19/2019	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 123 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 20 @ 1' (H902482-08)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2019	ND	1.99	99.5	2.00	0.995	
Toluene*	<0.050	0.050	07/19/2019	ND	2.07	103	2.00	3.16	
Ethylbenzene*	<0.050	0.050	07/19/2019	ND	1.93	96.5	2.00	1.03	
Total Xylenes*	<0.150	0.150	07/19/2019	ND	5.83	97.2	6.00	1.60	
Total BTEX	<0.300	0.300	07/19/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	400	100	400	0.00	QR-03

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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 21 @ 1' (H902482-09)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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
<b>Chloride</b>	<b>64.0</b>	16.0	07/22/2019	ND	400	100	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 22 @ 1' (H902482-10)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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	32.0	16.0	07/22/2019	ND	400	100	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 23 @ 1' (H902482-11)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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
<b>Chloride</b>	<b>48.0</b>	16.0	07/22/2019	ND	400	100	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 107 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 24 @ 1' (H902482-12)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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	64.0	16.0	07/22/2019	ND	400	100	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	07/19/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/19/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2019	ND					

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 25 @ 1' (H902482-13)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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
<b>Chloride</b>	<b>64.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 26 @ 1' (H902482-14)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	214	107	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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**Analytical Results For:**

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 27 @ 1' (H902482-15)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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
<b>Chloride</b>	<b>16.0</b>	16.0	07/22/2019	ND	400	100	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	07/22/2019	ND	214	107	200	0.788	
<b>DRO &gt;C10-C28*</b>	<b>18.4</b>	10.0	07/22/2019	ND	201	101	200	2.17	
<b>EXT DRO &gt;C28-C36</b>	<b>33.5</b>	10.0	07/22/2019	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.7 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 28 @ 1' (H902482-16)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 29 @ 1' (H902482-17)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 30 @ 1' (H902482-18)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 31 @ 2' (H902482-19)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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
<b>Chloride</b>	<b>80.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SP # 32 @ 1' (H902482-20)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/22/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/22/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/22/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/22/2019	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	32.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: NH1 @ SURFACE (H902482-21)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11		
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18		
Total BTEX	<0.300	0.300	07/24/2019	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46		
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780		
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND						

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: NH1 @ 1' (H902482-22)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/24/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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 DANIEL DOMINGUEZ  
 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: NH2 @ SURFACE (H902482-23)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11		
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18		
Total BTEX	<0.300	0.300	07/24/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46		
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780		
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND						

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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 P.O. Box 301  
 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: NH2 @ 1' (H902482-24)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11		
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45		
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29		
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18		
Total BTEX	<0.300	0.300	07/24/2019	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46		
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780		
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND						

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 130 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SH1 @ SURFACE (H902482-25)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/24/2019	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
<b>Chloride</b>	<b>48.0</b>	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SH1 @ 1' (H902482-26)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.97	98.3	2.00	3.11	
Toluene*	<0.050	0.050	07/24/2019	ND	2.03	101	2.00	2.45	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.90	95.0	2.00	3.29	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.89	98.1	6.00	3.18	
Total BTEX	<0.300	0.300	07/24/2019	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 128 % 37.6-147

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 Lovington NM, 88260  
 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SH2 @ SURFACE (H902482-27)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/22/2019	ND	400	100	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	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: SH2 @ 1' (H902482-28)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	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
<b>Chloride</b>	<b>16.0</b>	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 127 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: EH1 @ SURFACE (H902482-29)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

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 Fax To: (575) 396-1429

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: EH1 @ 1' (H902482-30)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	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	<16.0	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: EH2 @ SURFACE (H902482-31)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 122 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: EH2 @ 1' (H902482-32)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65	
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26	
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02	
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74	
Total BTEX	<0.300	0.300	07/23/2019	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	16.0	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 122 % 41-142

Surrogate: 1-Chlorooctadecane 126 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: WH1 @ SURFACE (H902482-33)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/23/2019	ND	1.78	88.8	2.00	4.65		
Toluene*	<0.050	0.050	07/23/2019	ND	1.82	90.9	2.00	4.26		
Ethylbenzene*	<0.050	0.050	07/23/2019	ND	1.73	86.6	2.00	4.02		
Total Xylenes*	<0.150	0.150	07/23/2019	ND	5.23	87.2	6.00	3.74		
Total BTEX	<0.300	0.300	07/23/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>144</b>	16.0	07/22/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46		
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780		
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND						

Surrogate: 1-Chlorooctane 121 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: WH1 @ 1' (H902482-34)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24		
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18		
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60		
Total BTEX	<0.300	0.300	07/24/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>32.0</b>	16.0	07/22/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46		
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780		
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND						

Surrogate: 1-Chlorooctane 117 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

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**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: WH2 @ SURFACE (H902482-35)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24	
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24	
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60	
Total BTEX	<0.300	0.300	07/24/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/22/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2019	ND	212	106	200	1.46	
DRO >C10-C28*	<10.0	10.0	07/20/2019	ND	208	104	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	07/20/2019	ND					

Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/18/2019	Sampling Date:	07/15/2019
Reported:	07/25/2019	Sampling Type:	Soil
Project Name:	SERRANO	Sampling Condition:	Cool & Intact
Project Number:	C, 28,23S,35E,LEA - 10768	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT MIDSTREAM - LEA CO NM		

**Sample ID: WH2 @ 1' (H902482-36)**

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/24/2019	ND	1.74	87.0	2.00	2.24		
Toluene*	<0.050	0.050	07/24/2019	ND	1.77	88.6	2.00	2.18		
Ethylbenzene*	<0.050	0.050	07/24/2019	ND	1.69	84.3	2.00	2.24		
Total Xylenes*	<0.150	0.150	07/24/2019	ND	5.08	84.7	6.00	2.60		
Total BTEX	<0.300	0.300	07/24/2019	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	
<b>Chloride</b>	<b>16.0</b>	16.0	07/22/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/22/2019	ND	194	96.8	200	1.17		
DRO >C10-C28*	<10.0	10.0	07/22/2019	ND	184	92.2	200	0.398		
EXT DRO >C28-C36	<10.0	10.0	07/22/2019	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 96.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- QR-03      The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
- 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





**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Goodnight Midstream Permian, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Daniel Dominguez				P.O. #:																							
Address: 3100 Plains Hwy				Company: Etech Environmental & Sa																							
City: Lovington		State: NM		Zip: 88260		Attn: Daniel Dominguez																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: P.O. Box 301																							
Project #: 10768		Project Owner: Goodnight Midstream Per		City: Lovington																							
Project Name: Serrano				State: NM				Zip: 88260																			
Project Location: "C", 28, 23S, 35E, Lea				Phone #: 575-396-2378																							
Sampler Name: Catlina Villa, Shawn Cotton				Fax #: 575-396-1429																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMF	# CONTAINERS	MATRIX				PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021										
H902482				G	1	X				X			7/15/19		X	X	X										
1		SP#9@1'		G	1	X				X			7/15/19		X	X	X										
2		SP#14@1'		G	1	X				X			7/15/19		X	X	X										
3		SP#15@1'		G	1	X				X			7/15/19		X	X	X										
4		SP#16@2'		G	1	X				X			7/15/19		X	X	X										
5		SP#17@1'		G	1	X				X			7/15/19		X	X	X										
6		SP#18@1'		G	1	X				X			7/15/19		X	X	X										
7		SP#19@1'		G	1	X				X			7/15/19		X	X	X										
8		SP#20@1'		G	1	X				X			7/15/19		X	X	X										
9		SP#21@1'		G	1	X				X			7/15/19		X	X	X										
10		SP#22@1'		G	1	X				X			7/15/19		X	X	X										

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Relinquished By: <i>Catalina Villa</i>		Date: 07-18-19		Received By: <i>Dan Dominguez</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 2:00				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Dan Dominguez</i>		Date: 7/18/19		Received By: <i>Juan Carlos</i>		REMARKS: email results to <a href="mailto:daniel@etechenv.com">daniel@etechenv.com</a>			
		Time: 4:27pm							
Delivered By: (Circle One)		1.0E		#97		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Corrected 1.4E				Cool Intact		(Initials)	
						<input type="checkbox"/> Yes <input type="checkbox"/> No		<i>to</i>	

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







**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Goodnight Midstream Permian, LLC				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Daniel Dominguez				P.O. #:																							
Address: 3100 Plains Hwy				Company: Etech Environmental & Sa																							
City: Lovington		State: NM		Zip: 88260		Attn: Daniel Dominguez																					
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: P.O. Box 301																							
Project #: 10768		Project Owner: Goodnight Midstream Pe		City: Lovington																							
Project Name: Serrano				State: NM				Zip: 88260																			
Project Location: "C", 28, 23S, 35E, Lea				Phone #: 575-396-2378																							
Sampler Name: Catlina Villa, Shawn Cotton				Fax #: 575-396-1429																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GIRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH	BTEX 8021										
H902482																											
31		EH2@Surface'		G	1	X				X			7/15/19		X	X	X										
32		EH2@1'		G	1	X				X			7/15/19		X	X	X										
33		WH1@Surface'		G	1	X				X			7/15/19		X	X	X										
34		WH1@1'		G	1	X				X			7/15/19		X	X	X										
35		WH2@Surface'		G	1	X				X			7/15/19		X	X	X										
36		WH2@1'		G	1	X				X			7/15/19		X	X	X										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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: <i>Catrina Villa</i>		Date: <i>7-18-19</i>		Received By: <i>D. Dominguez</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: <i>2:00</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Daniel Dominguez</i>		Date: <i>7/15/19</i>		Received By: <i>Jamara Aldate</i>		REMARKS: email results to <a href="mailto:daniel@etechenv.com">daniel@etechenv.com</a>			
		Time: <i>4:27</i>							
Delivered By: (Circle One)		Date: <i>1.02.19</i>		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:		<i>Corrected 1.4c</i>		Cool Intact		<i>TO</i>			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
				<input type="checkbox"/> No <input type="checkbox"/> No					

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

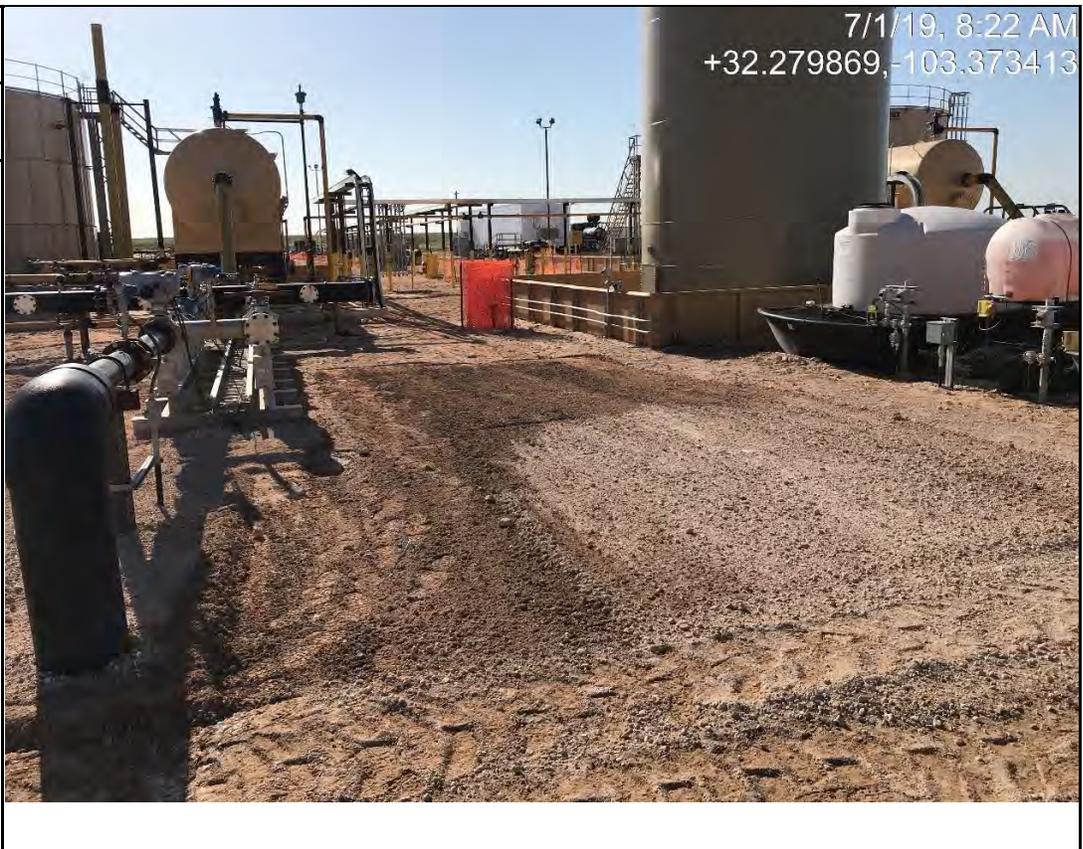
Appendix D  
Photographic Log

# Photographic Log

<b>Photo Number:</b> 1
<b>Photo Direction:</b> South
<b>Photo Description:</b> View of Surface Staining from the Initial Release



<b>Photo Number:</b> 2
<b>Photo Direction:</b> East
<b>Photo Description:</b> View of Surface Staining from the Initial Release

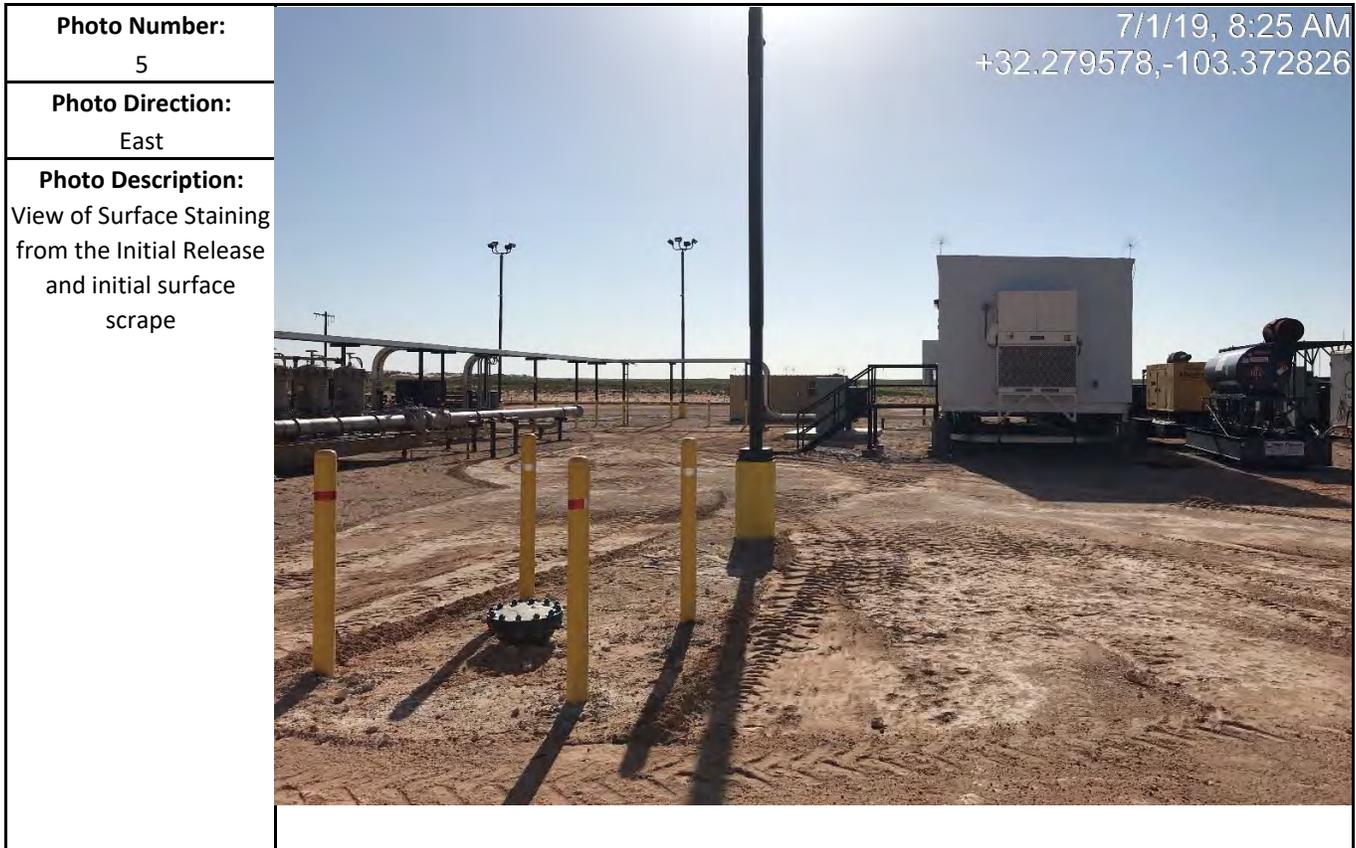


# Photographic Log

<b>Photo Number:</b> 3	
<b>Photo Direction:</b> Northeast	
<b>Photo Description:</b> View of Surface Staining from the Initial Release and initial surface scrape	

<b>Photo Number:</b> 4	
<b>Photo Direction:</b> North	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

# Photographic Log



# Photographic Log

<b>Photo Number:</b> 7	 <p>7/1/19, 8:25 AM +32.279681,-103.372446</p>
<b>Photo Direction:</b> East	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

<b>Photo Number:</b> 8	 <p>7/1/19, 8:26 AM +32.279678,-103.372339</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

# Photographic Log

<b>Photo Number:</b> 9	 <p>7/1/19, 8:27 AM +32.279588,-103.372295</p>
<b>Photo Direction:</b> West	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

<b>Photo Number:</b> 10	 <p>7/1/19, 8:27 AM +32.279498,-103.372305</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

# Photographic Log

<b>Photo Number:</b> 11	 <p>7/1/19, 8:30 AM +32.280160,-103.372429</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of Surface Staining from the Initial Release	

<b>Photo Number:</b> 12	 <p>7/1/19, 8:30 AM +32.280159,-103.372637</p>
<b>Photo Direction:</b> South	
<b>Photo Description:</b> View of Surface Staining from the Initial Release and initial surface scrape	