

Site Assessment Report and Proposed Remediation Workplan

Goodnight Midstream Permian, LLC Serrano

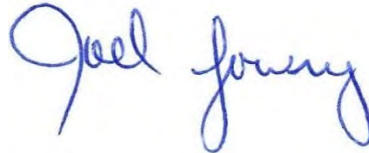
Lea County, New Mexico
Unit Letter "C", Section 28, Township 23 South, Range 35 West
Latitude 32.279828 North, Longitude 103.373337 West
NMOCD Reference No. 1RP-5610

Prepared By:

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



Daniel Dominguez



Joel W. Lowry



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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:

Location of Release Source

Latitude: 32.279828 Longitude: -103.373337
Provided GPS are in WGS84 format.

Site Name:	Serrano	Site Type:	SWD
Date Release Discovered:	6/28/2019	API # (if applicable):	

Unit Letter	Section	Township	Range	County
"C"	28	23S	35W	Lea

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 768	Volume Recovered (bbls) 100
	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.

Initial Response

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

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

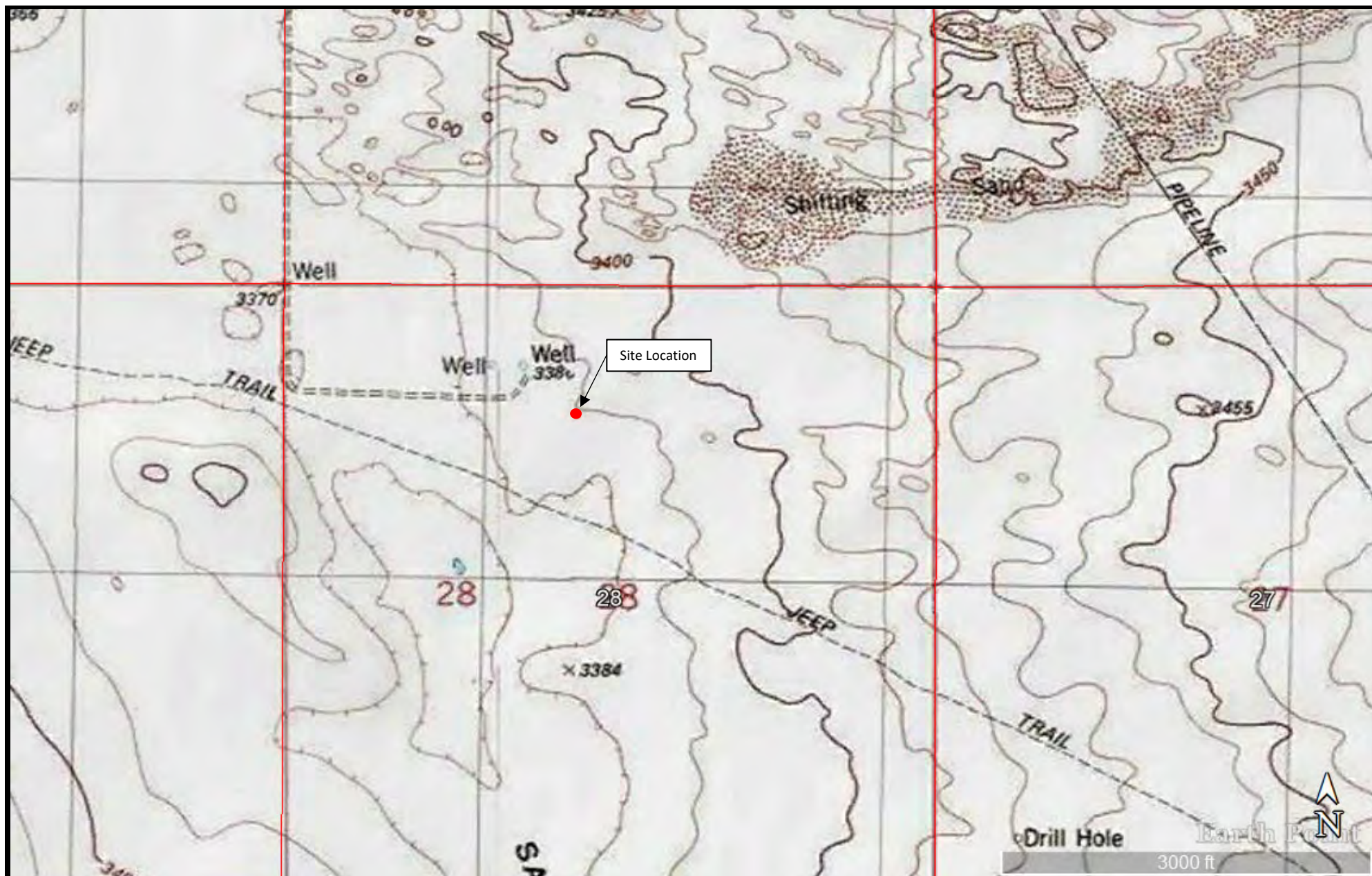
Hobbs, NM 88240

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

Figure 2
Aerial Proximity Map



Legend:

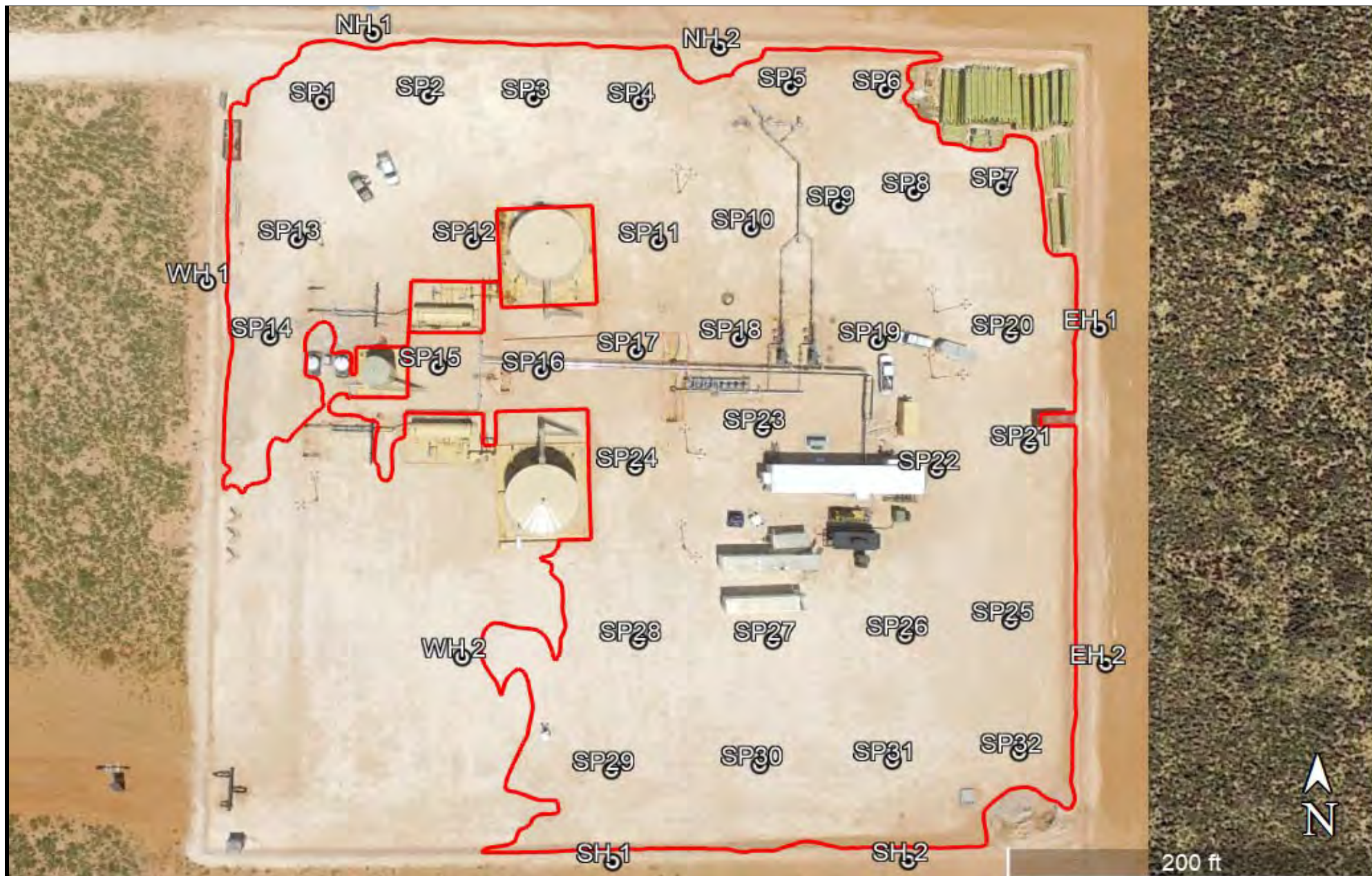
- Site Location
- Fresh Water Well
- ▨ 100-Year Floodplain
- ▨ High/Critical Karst
- 🏠 Non-Industrial Building
- 🏭 Subsurface Mine
- 1/2 Mile Radius

Figure 2
 Aerial Proximity 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 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




Environmental & Safety Solutions, Inc.

Drafted:	Checked: jwl	Date: 8/26/19
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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
					BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (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	--	--	--	--	--	--	--	--	--	26,000
	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	--	--	--	--	--	--	--	--	--	47,200
	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	128
SP 5	Surface	03-Jul-19	Excavated	27,680	--	--	--	--	--	--	--	--	--	42,400
	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	--	--	--	--	--	--	--	--	--	30,800
	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	--	--	--	--	--	--	--	--	--	46,400
	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	32
SP 10	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	31,200
	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	--	--	--	--	--	--	--	--	--	88,800
	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	--	--	--	--	--	--	--	--	--	26,000
	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	--	--	--	--	--	--	--	--	--	88,000
	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	--	--	--	--	--	--	--	--	--	--
	6'	08-Jul-19	In-Situ	456	--	--	--	--	--	--	--	--	--	--
SP 14	Surface	03-Jul-19	Excavated	23,508	--	--	--	--	--	--	--	--	--	22,600
	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	--	--	--	--	--	--	--	--	--	30,400
	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 ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (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

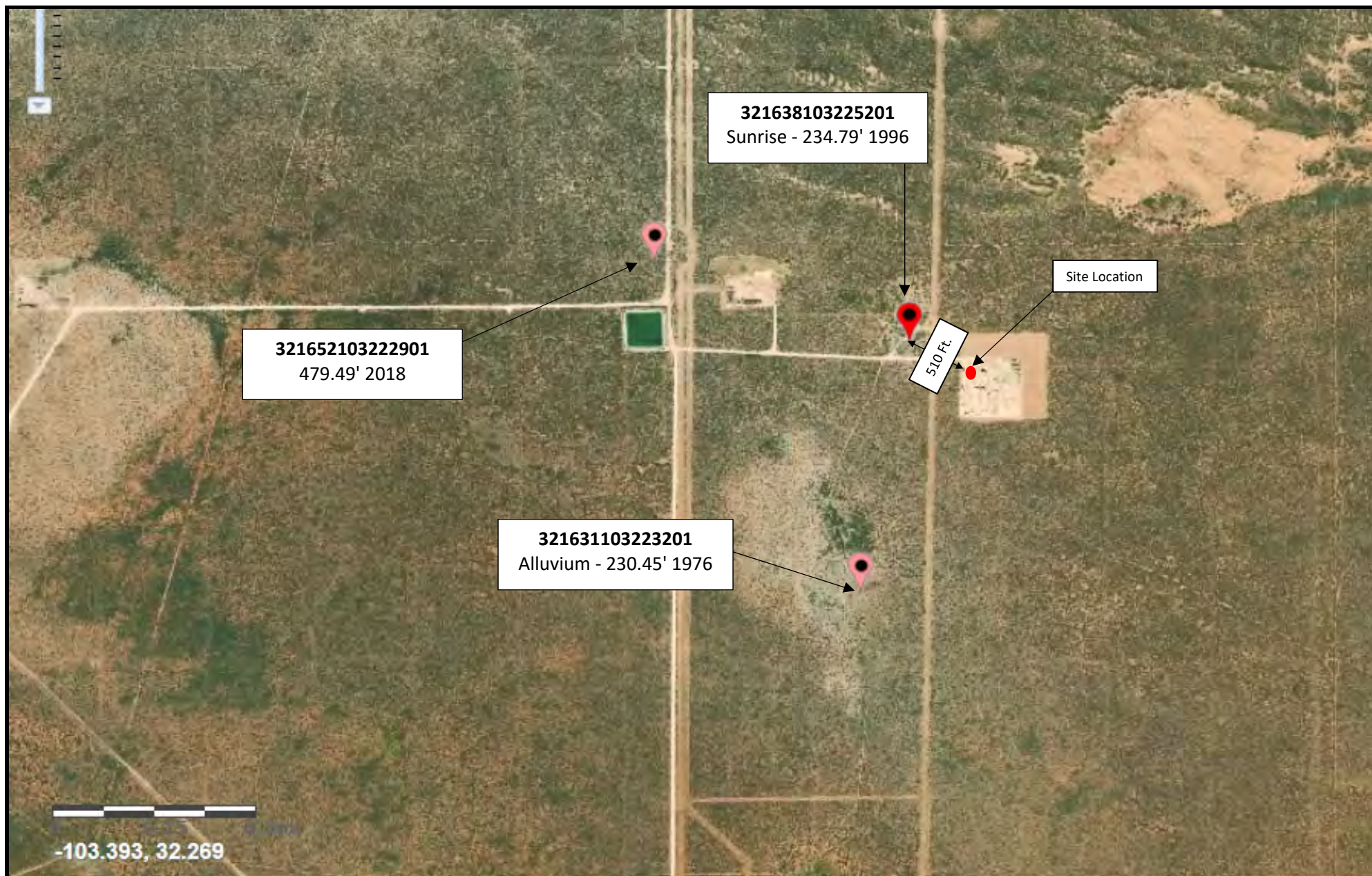
TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL
GOODNIGHT MIDSTREAM PERMIAN, LLC.
SERRANO

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 ₆ -C ₁₀ (mg/Kg)	DRO C ₁₀ -C ₂₈ (mg/Kg)	ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (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
NMOCD Regulatory Standard					10				50				2,500	20,000

-- = 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




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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 01099 POD2		CP	LE	1	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

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

8/23/19 10:57 AM

POINT OF DIVERSION SUMMARY



National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:	Geographic Area:	
Groundwater	United States	GO

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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

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

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 measur
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 measur
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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Title: Groundwater for USA: Water Levels

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-08-23 13:00:48 EDT

0.68 0.62 nadww01





National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:	Geographic Area:	
Groundwater	United States	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321631103223201

Minimum number of levels = 1

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

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

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

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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Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-08-23 13:03:28 EDT

0.59 0.56 nadww01



National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:	Geographic Area:	
Groundwater	United States	GO

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Groundwater levels for the Nation

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

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

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

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-08-23 13:04:58 EDT

0.49 0.45 nadww01



Appendix B

Field Data and Soil Profile Logs

Goodnight midstream Serrano 01 03 19

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

Goodnight midstream		Serrano	07.08.19
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

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Import Fill, Caliche Pad

Red Sand

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	07/10/2019	ND	416	104	400	0.00	

Sample ID: SP 2 (H902305-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	07/10/2019	ND	416	104	400	0.00	

Sample ID: SP 3 (H902305-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	07/10/2019	ND	416	104	400	0.00	

Sample ID: SP 4 (H902305-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	47200	16.0	07/10/2019	ND	416	104	400	0.00	

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:	07/08/2019	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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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 10 (H902305-10)

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26000	16.0	07/10/2019	ND	416	104	400	0.00		

Sample ID: SP 13 (H902305-13)

Chloride, SM4500Cl-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, SM4500Cl-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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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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Analytical Results For:

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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 20 (H902305-20)

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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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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, 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	400	100	400	3.92	

Sample ID: SP 26 (H902305-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	07/10/2019	ND	400	100	400	3.92	

Sample ID: SP 27 (H902305-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	78400	16.0	07/10/2019	ND	400	100	400	3.92	

Sample ID: SP 28 (H902305-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	07/10/2019	ND	400	100	400	3.92		

Sample ID: SP 29 (H902305-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	07/10/2019	ND	400	100	400	3.92	

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Analytical Results For:

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

Received:	07/08/2019	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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34400	16.0	07/10/2019	ND	400	100	400	3.92	

Sample ID: SP 31 (H902305-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	92800	16.0	07/10/2019	ND	400	100	400	3.92	

Sample ID: SP 32 (H902305-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	07/10/2019	ND	400	100	400	3.92	

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Notes and Definitions

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

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(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>				BILL TO				ANALYSIS REQUEST																				
Project Manager: <u>Daniel Dominguez</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> </div>																				
Address: <u>3100 Plains Hwy</u>				Company:																								
City: <u>Livingston</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 #:																								
FOR LAB USE ONLY																												
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.			SAMPLING																	
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
<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>7/8/19</u> Time: <u>9:05</u>	Received By: <u>Juanita 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>			REMARKS: email results: <u>DanielD@etechenv.com</u>	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) <u>TO.</u>	

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

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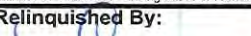

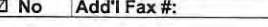
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 7-8-19		Received By: 		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: 9.05				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS: email results  daniel@etechnv.com			
		Time:							
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: -0.9°C #197				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Initials) Y.P.			

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 (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>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Daniel Dominguez</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015 M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																	
Address:				Company:																					
City:		State:		Zip:		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 #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(GRAB OR C/COMP. # CONTAINERS)		MATRIX				PRESERV.		SAMPLING													
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME													
<u>H902305</u>				<u>1</u>						<u>✓</u>		<u>7-3-19</u>		<u>✓</u>											
<u>21</u>		<u>SP21</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>22</u>		<u>SP22</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>23</u>		<u>SP23</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>24</u>		<u>SP24</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>25</u>		<u>SP25</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>26</u>		<u>SP26</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>27</u>		<u>SP27</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>28</u>		<u>SP28</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>29</u>		<u>SP29</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											
<u>30</u>		<u>SP30</u>		<u>1</u>						<u>✓</u>				<u>✓</u>											

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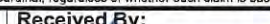
Relinquished By: <u>Daniel Dominguez</u>		Date: <u>7-3-19</u>	Received By: <u>Amara Olden</u>		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:	
		Time: <u>9:05</u>			Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:	Received By:		REMARKS: email results <u>Daniel@etechenv.com</u>			
		Time:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>-0.9°C #97</u>			Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>TD</u>			

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

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

[illegible]

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Relinquished By: 		Date: 7-8-19 Time: 9:05		Received By: 		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date: Time:		Received By:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials)	
-0.9°C #97				TO.		REMARKS: email results Daniel D@etechenv.com	

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



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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
Chloride	32.0	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

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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:	07/09/2019	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, 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	07/10/2019	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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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:	07/09/2019	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	
Chloride	16.0	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 116 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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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 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
Chloride	128	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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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 5 (H902340-05)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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 6 (H902340-06)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
Chloride	16.0	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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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 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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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 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	
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	07/11/2019	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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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 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	
Chloride	64.0	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	07/11/2019	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

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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	
Chloride	16.0	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	07/11/2019	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

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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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	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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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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental						BILL TO								ANALYSIS REQUEST																			
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		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021																
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE											OTHER :	ACID/BASE:		ICE / COOL		OTHER :	DATE	TIME	
H902340				G	1		X							X												X							
1 SP1				G	1		X							X												X							
2 SP2				G	1		X							X												X							
3 SP3				G	1		X							X												X							
4 SP4				G	1		X							X												X							
5 SP5				G	1		X							X												X							
6 SP6				G	1		X							X												X							
7 SP7				G	1		X							X												X							
8 SP8				G	1		X							X												X							
9 SP10				G	1		X							X			X																
10 SP11				G	1		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: Catalina Villa						Date: 7-9-19 Time: 10:49		Received By: 						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																			
Relinquished By: 						Date: 7-9-19 Time: 3:47pm		Received By: Jawara Olden						Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:																			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:						Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						CHECKED BY: (Initials) JO-						REMARKS: email results to daniel@etechenv.com															

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

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

[illegible]

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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
Chloride	32.0	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	07/20/2019	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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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, SM4500Cl-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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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 # 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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	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

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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 # 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
Chloride	48.0	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 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 # 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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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, 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 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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	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	
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 117 % 41-142

Surrogate: 1-Chlorooctadecane 118 % 37.6-147

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Received: 07/18/2019
Reported: 07/25/2019
Project Name: SERRANO
Project Number: C, 28,23S,35E,LEA - 10768
Project Location: GOODNIGHT MIDSTREAM - LEA CO NM

Sampling Date: 07/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

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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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 # 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
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	07/19/2019	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
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	07/20/2019	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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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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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
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	07/22/2019	ND	214	107	200	0.788	
DRO >C10-C28*	18.4	10.0	07/22/2019	ND	201	101	200	2.17	
EXT DRO >C28-C36	33.5	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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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, 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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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 # 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, 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	07/20/2019	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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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 # 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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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 # 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
Chloride	80.0	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 124 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 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 # 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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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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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	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 120 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 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: 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, 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	07/20/2019	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: 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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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	
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 124 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 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: 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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	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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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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	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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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	
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 127 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 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: 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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	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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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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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, 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	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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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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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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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)

BTX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 BTX	<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	144	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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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)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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, 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	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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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, SM4500Cl-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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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	
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	07/22/2019	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 LCSD 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Goodnight Midstream Permian, LLC				BILL TO				ANALYSIS REQUEST																																											
Project Manager: Daniel Dominguez				P.O. #:																																															
Address: 3100 Plains Hwy				Company: Etech Environmental & Safety																																															
City: Lovington		State: NM		Zip: 88260		Attn: Daniel Dominguez																																													
Phone #: 575-396-2378		Fax #: 575-396-1429		Address: P.O. Box 301																																															
Project #: 10763		Project Owner: Goodnight Midstream Permian		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						MATRIX		PRESERV.		SAMPLING																																									
Lab I.D.		Sample I.D.		(GRAB OR COMPOSITE)		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME		Chloride		TPH		BTEX 8021																	
H902482																																																			
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: Catalina Villa		Date: 07-18-19	Received By: Dan Song	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: Dan Song		Date: 7/18/19	Received By: Jamiro Olds	REMARKS: email results to daniel@etechenv.com	
Delivered By: (Circle One)		Time: 4:27pm			
Sampler - UPS - Bus - Other:		1.02 #97	Sample Condition		
		Corrected 1.42	Cool Intact		
			<input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials)	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	to	

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page 1 of 4



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Goodnight Midstream Permian, LLC				BILL TO				ANALYSIS REQUEST															
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				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						
H902482																							
11	SP#23@1'	G	1		X					X			7/15/19		X	X	X						
12	SP#24@1'	G	1		X					X			7/15/19		X	X	X						
13	SP#25@1'	G	1		X					X			7/15/19		X	X	X						
14	SP#26@1'	G	1		X					X			7/15/19		X	X	X						
15	SP#27@1'	G	1		X					X			7/15/19		X	X	X						
16	SP#28@1'	G	1		X					X			7/15/19		X	X	X						
17	SP#29@1'	G	1		X					X			7/15/19		X	X	X						
18	SP#30@1'	G	1		X					X			7/15/19		X	X	X						
19	SP#31@2'	G	1		X					X			7/15/19		X	X	X						
20	SP#32@1'	G	1		X					X			7/15/19		X	X	X						

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Relinquished By: <i>Catalina Villa</i>	Date: 8/18/19	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>Tamara Decker</i>	REMARKS: email results to daniel@etechenv.com	
	Time: 4:27			
Delivered By: (Circle One)	1.0c	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	Corrected 1.4c	Cool Intact	10.	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Goodnight Midstream Permian, LLC				BILL TO				ANALYSIS REQUEST											
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 #: 15768		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.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		Chloride		TPH		BTEX 8021	
								GROUNDWATER											
								WASTEWATER											
								SOIL											
								OIL											
								SLUDGE											
								OTHER :											
								ACID/BASE:											
								ICE / COOL											
								OTHER :											
										DATE		TIME							
H902.482																			
21 NH1@Surface'				G 1				X				7/15/19				X		X	
22 NH1@1'				G 1				X				7/15/19				X		X	
23 NH2@Surface'				G 1				X				7/15/19				X		X	
24 NH2@1'				G 1				X				7/15/19				X		X	
25 SH1@Surface'				G 1				X				7/15/19				X		X	
26 SH1@1'				G 1				X				7/15/19				X		X	
27 SH2@Surface'				G 1				X				7/15/19				X		X	
28 SH2@1'				G 1				X				7/15/19				X		X	
29 EH1@Surface'				G 1				X				7/15/19				X		X	
30 EH1@1'				G 1				X				7/15/19				X		X	
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Relinquished By:				Date: 7-18-19		Received By:				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:					
Catalina Villa				Time: 2:00		[Signature]				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:					
Relinquished By:				Date: 7/18/19		Received By:				REMARKS: email results to daniel@etechenv.com									
[Signature]				Time: 9:27		[Signature]													
Delivered By: (Circle One)				1.0E #97		Sample Condition				CHECKED BY:									
Sampler - UPS - Bus - Other:				Corrected 1.4E		Cool Intact				(Initials)									
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				40									

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Goodnight Midstream Permian, LLC				BILL TO				ANALYSIS REQUEST																
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				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							
4902482																								
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							

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Relinquished By: <i>Catrina Villa</i>	Date: 8-18-19	Received By: <i>Dan Dominguez</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>Dan Dominguez</i>	Date: 7/15/19	Received By: <i>Samara Alda</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Time: 4:27	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	REMARKS: email results to daniel@etechenv.com	
Checker: 1.02... #97 Corrected 1.46	CHECKED BY: (Initials) TO			

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Appendix D

Photographic Log

Photographic Log



Photographic Log




Photographic Log



Photographic Log

Photo Number: 7	
Photo Direction: East	
Photo Description: View of Surface Staining from the Initial Release	

Photo Number: 8	
Photo Direction: South	
Photo Description: View of Surface Staining from the Initial Release	

Photographic Log


Photo Number: 9	
Photo Direction: West	
Photo Description: View of Surface Staining from the Initial Release	

Photo Number: 10	
Photo Direction: South	
Photo Description: View of Surface Staining from the Initial Release	

Photographic Log

