

Incident ID	nAPP2204530872
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>128.8</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input 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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico  
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Albert Ochoa Title: HSE SpecialistSignature:  Date: 05/17/2022email: albert.ochoa@goodnightmidstream.com Telephone: (432)242-6629**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAPP2204530872
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## Closure

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

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

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


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

Printed Name: Albert Ochoa Title: HSE Specialist  
Signature:  Date: 05/17/2022  
email: albert.ochoa@goodnightmidstream.com Telephone: (432)242-6629

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by:  Date: 05/31/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

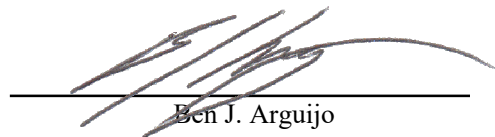
## Remediation Summary & Soil Closure Request

### Goodnight Midstream Permian, LLC Blueberry CRP

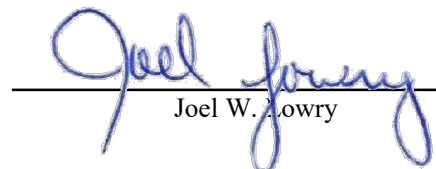
Lea County, New Mexico  
Unit Letter "P", Section 24, Township 21 South, Range 33 East  
Latitude 32.45911 North, Longitude 103.51960 West  
NMOCD Reference No. nAPP2204530872

Prepared By:

**Etech Environmental & Safety Solutions, Inc.**  
2507 79th Street, Unit A  
Lubbock, Texas 79423



Ben J. Arguijo



Joel W. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette



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## 1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Goodnight Midstream Permian, LLC (Goodnight), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Blueberry CRP. Details of the release are summarized below:

### Location of Release Source

Latitude: 32.45911 Longitude: -103.51960  
Provided GPS are in WGS84 format.

Site Name:	Blueberry CRP	Site Type:	SWD
Date Release Discovered:	2/4/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"P"	24	21S	33E	Lea

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

### Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.1	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	5.3	Volume Recovered (bbls)	0
	Is the concentration of total dissolved solids (TDS) 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:

Charge pump transmitter fitting failure. The release affected areas adjacent to the facility and on the caliche pad measuring approximately 3,800 square feet.

### 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.

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

## 2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on September 15, 2021, an investigative soil boring/temporary monitor well was drilled on the Blueberry Salt Water Disposal (SWD) production pad in an effort to determine if shallow groundwater is present in the area (please reference NMOCD Incident ID #nRM2010753767). A groundwater gauging event conducted on September 20, 2021, indicated the depth to groundwater was approximately 128.8 feet below ground surface (bgs). The location of the investigative soil boring/temporary monitor well is depicted in Figure 2. A drilling log is provided in Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	128.8'		
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) and Fish & Wildlife Services (FWS) shapefiles, topographic maps, NMOSE and USGS databases, and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

## 3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Blueberry CRP release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
128.8'	Chloride (Cl <sup>-</sup> )	EPA 300.0 or SM4500 Cl B	20,000	600
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	2,500	100
	Gas Range Organics + Diesel Range Organics (GRO + DRO)	EPA SW-846 Method 8015M	1,000	N/A
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

\* Measured in milligrams per kilogram (mg/kg)

† Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC).

‡ The NMOCD Reclamation Standard applies only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

## 4.0 INITIAL SITE ASSESSMENT

On February 18, 2022, Etech conducted an initial site assessment. During the site assessment, two (2) test trenches (T.T. 1 and T.T. 2) were advanced within the release margins in an effort to determine the vertical extent of impacted soil. During the advancement of the test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, four (4) confirmation soil samples (T.T. 1 @ Surface, T.T. 1 @ 1', T.T. 2 @ Surface, and T.T. 2 @ 1') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the vertical extent of impacted soil was adequately defined in the areas characterized by test trenches T.T. 1 and T.T. 2, and soil was not affected above the NMOCD Closure Criteria beyond one (1) foot bgs. However, additional horizontal delineation and/or excavation was required.

On February 21, 2022, Etech collected 16 delineation soil samples (N DEF 1 @ Surface, N DEF 1 @ 1', N DEF 2 @ Surface, N DEF 2 @ 1', E DEF 1 @ Surface, E DEF 1 @ 1', E DEF 2 @ Surface, E DEF 2 @ 1', S DEF 1 @ Surface, S DEF 1 @ 1', S DEF 2 @ Surface, S DEF 2 @ 1', W DEF 1 @ Surface, W DEF 1 @ 1', W DEF 2 @ Surface, and W DEF 2 @ 1') in an effort to determine if the impacted soil beneath/adjacent to the semi-permanent outbuildings, the lined SWD containment area, and associated piping, appurtenances, and/or electrical facilities would require deferral of remediation. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. Based on these laboratory analytical results, no additional remedial action was required in the areas characterized by sample points N DEF 1, N DEF 2, E DEF 1, E DEF 2, S DEF 1, S DEF 2, and W DEF 1. However, additional delineation was required to determine the vertical extent of chloride contamination in the area characterized by sample point W DEF 2.

## 5.0 REMEDIATION ACTIVITIES SUMMARY

On February 21, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil within the release margins affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards.

On February 22, 2022, Etech collected three (3) confirmation soil samples (FL 1 @ 3', FL 2 @ 3', and FL 3 @ 3') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations were 48.0 mg/kg in soil sample FL 2 @ 3' and 64.0 mg/kg in soil samples FL 1 @ 3' and FL 3 @ 3'.

On February 28, 2022, Etech collected five (5) confirmation soil samples (FL 4 @ 1', FL 5 @ 1', FL 6 @ 1', FL 7 @ 1', and FL 8 @ 1') from the floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 7 @ 1' to 64.0 mg/kg in soil samples FL 4 @ 1' and FL 5 @ 1'.

On March 1, 2022, Etech collected 10 confirmation soil samples (NW 1, EW 1, EW 2, WW 1, FL 9 @ 1.5', FL 10 @ 1.5', FL 11 @ 1.5', FL 12 @ 1.5', FL 13 @ 1.5', and FL 14 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and

chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample FL 14 @ 1.5' to 160 mg/kg in soil sample EW 1.

On March 2, 2022, Etech collected 13 confirmation soil samples (NW 2, NW 3, NW 4, NW 5, SW 1, SW 2, WW 2, WW 3, FL 15 @ 1.5', FL 16 @ 1.5', FL 17 @ 1.5', FL 18 @ 1.5', and FL 19 @ 4') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 48.0 mg/kg in soil samples NW 4, NW 5, FL 18 @ 1.5', and FL 19 @ 4' to 288 mg/kg in soil samples FL 15 @ 1.5' and FL 17 @ 1.5'.

In addition, Etech collected two (2) delineation soil samples (W DEF 1 @ 2' and W DEF 2 @ 2') in an effort to further investigate the vertical extent of impacted soil in the areas characterized by sample points W DEF 1 and W DEF 2. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations were 144 mg/kg in soil sample W DEF 1 @ 2' and 224 mg/kg in soil sample W DEF 2 @ 2'. Based on these laboratory analytical results, the vertical extent of impacted soil in the areas characterized by sample points W DEF 1 and W DEF 2 was adequately defined, and no additional remedial action was required.

The final dimensions of the excavated area were approximately 122 feet in length, three (3) to 85 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 336 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 336 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. Laboratory analytical reports are provided in Appendix C. General photographs of the release site are provided in Appendix D.

## **6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

The release was limited to the production pad of an active SWD facility. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions and compacted/contoured to meet the needs of the facility. Final remediation, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the SWD.

## **7.0 SOIL CLOSURE REQUEST**

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Goodnight provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Blueberry CRP release site.

## 8.0 LIMITATIONS

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

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

## **9.0 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*

*1220 South St. Francis Drive*

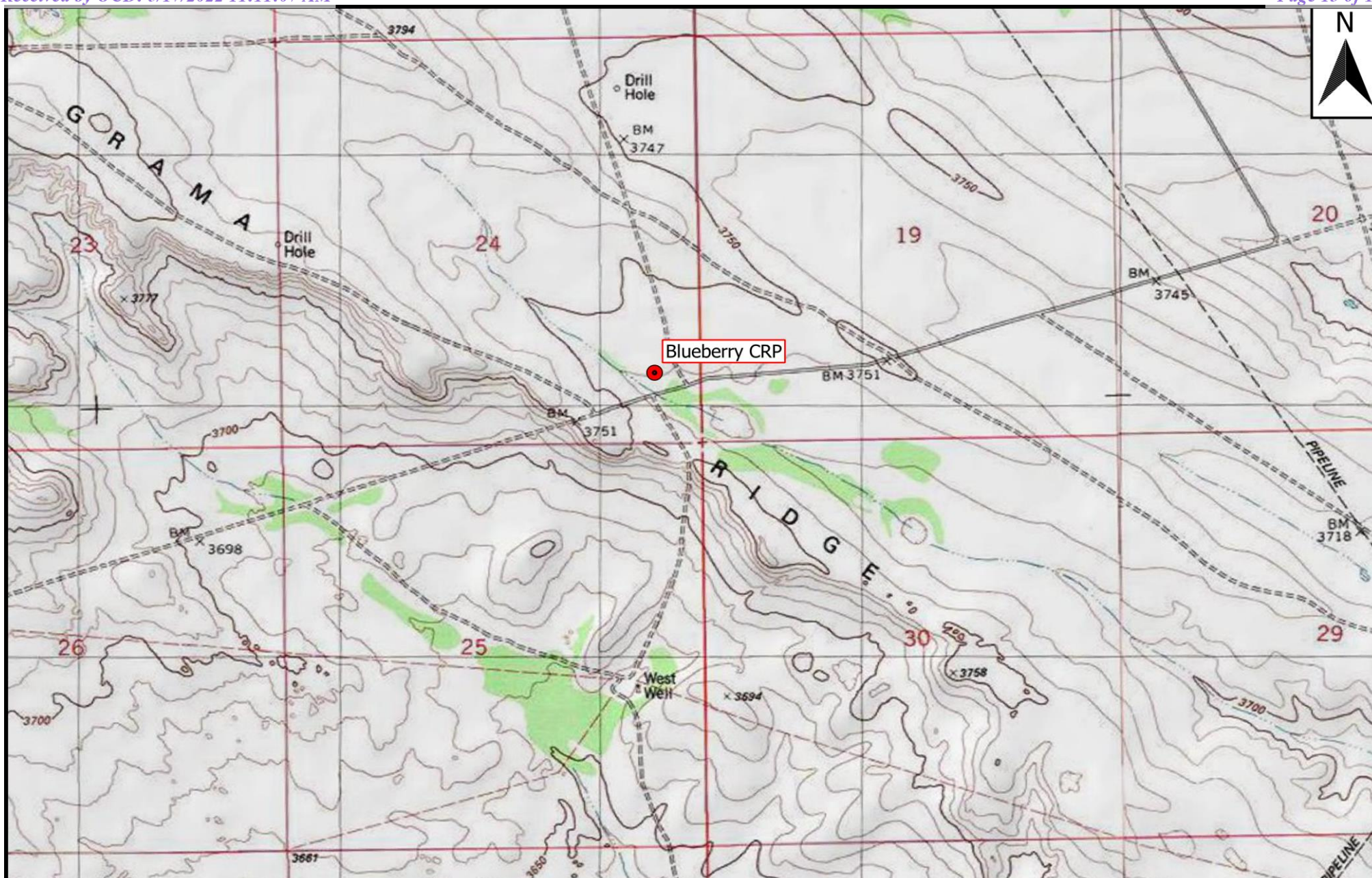
*Santa Fe, NM 87505*

*(Electronic Submission)*

# **Figure 1**

## **Topographic Map**





## Legend

● Site Location

## Figure 1

Topographic Map  
 Goodnight Midstream Permian, LLC  
 Blueberry CRP  
 GPS: 32.45911, -103.51960  
 Lea County

**eTECH**  
 Environmental & Safety Solutions, Inc.

Drafted: bja

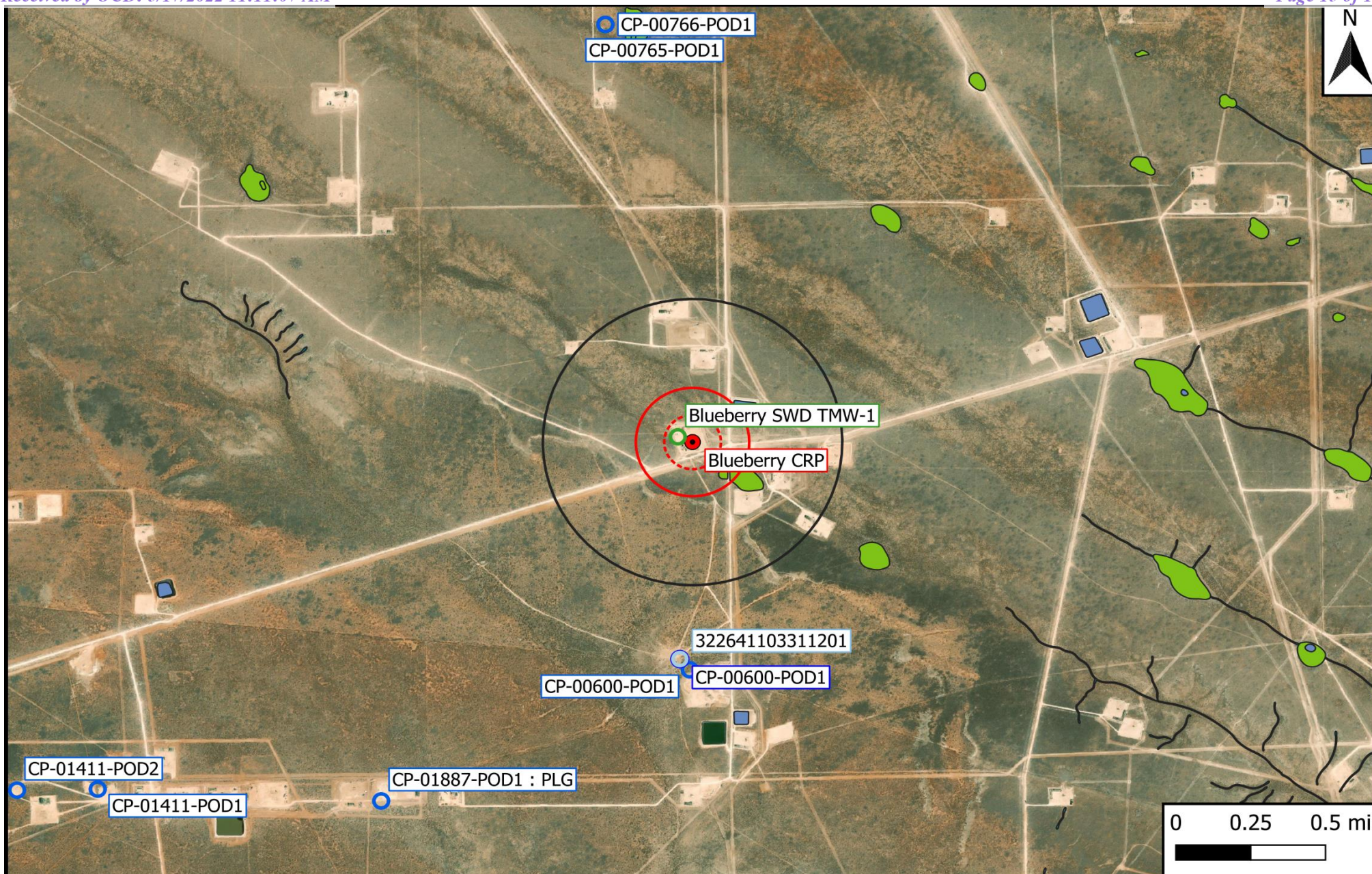
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Date: 4/16/22

## **Figure 2**

### **Aerial Proximity Map**





## Legend

● Site Location	1% Annual Flood Chance	500-Ft Radius
○ Well - NMOSE	Emergent/Forested Wetlands	1,000-Ft Radius
○ Well - USGS	Freshwater Pond/Lake	0.5-Mi Radius
○ Well - Investigative/Monitor	Medium/High Karst	
— Potash Mine Workings	Riverine	

**Figure 2**  
Aerial Proximity Map  
Goodnight Midstream Permian, LLC  
Blueberry CRP  
GPS: 32.45911, -103.51960  
Lea County

**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: bja

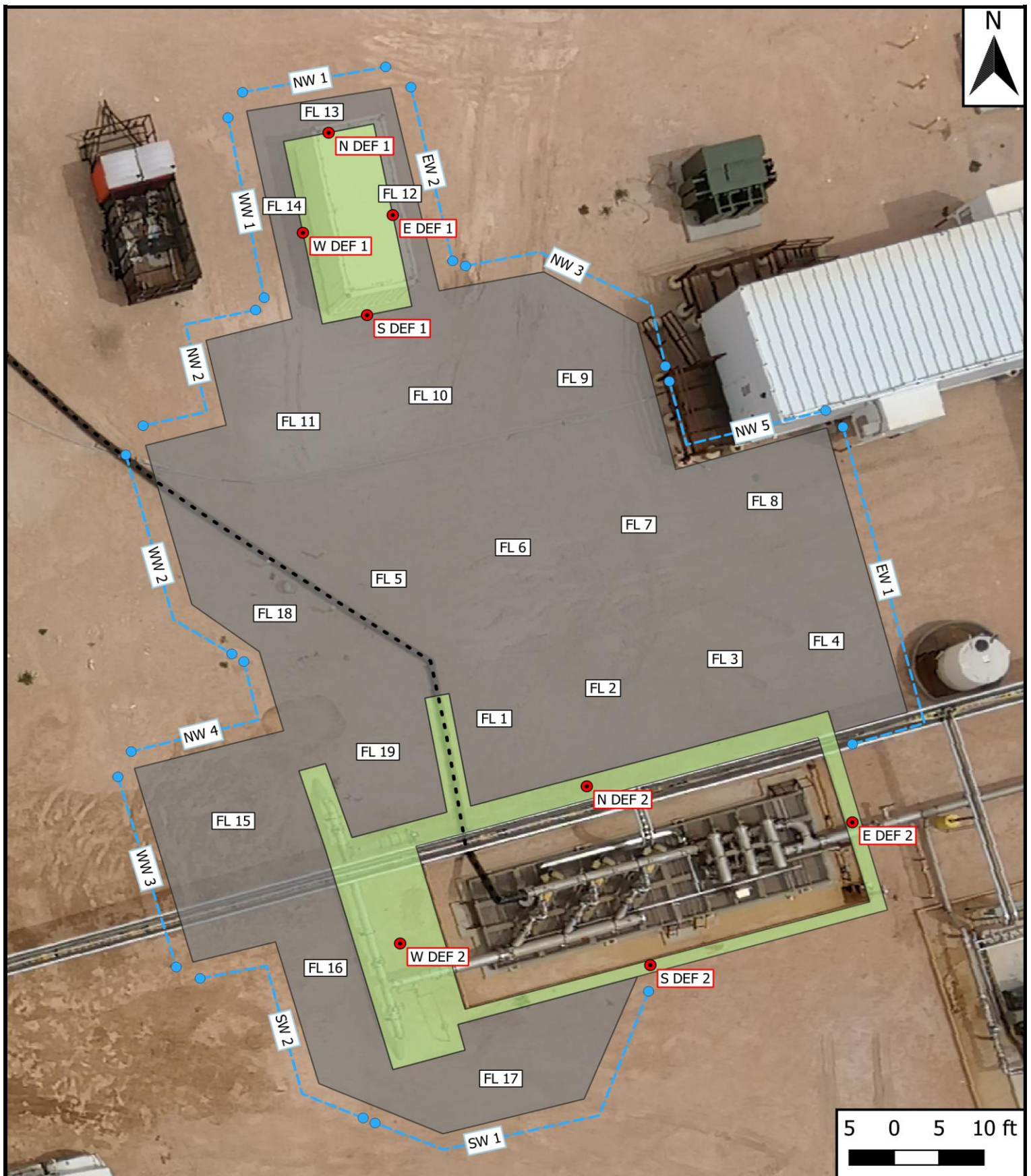
Checked: jwl

Date: 4/16/22



## **Figure 3**

### **Site & Sample Location Map**



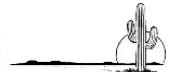
## Legend

- |   |   |
|---|---|
| <span style="display:inline-block; width:15px; height:15px; background-color:lightgreen; border:1px solid black;"></span> Affected Area | <span style="display:inline-block; width:15px; height:15px; border:1px solid black;"></span> Composite Floor Sample                                   |
| <span style="display:inline-block; width:15px; height:15px; background-color:grey; border:1px solid black;"></span> Excavated Area      | <span style="display:inline-block; width:15px; height:15px; border-top:1px dashed blue; border-bottom:1px dashed blue;"></span> Composite Wall Sample |
| <span style="display:inline-block; width:15px; border-bottom:2px dashed black;"></span> Pipeline  | <span style="display:inline-block; width:15px; height:15px; border:1px solid red; border-radius:50%;"></span> Delineation Sample                      |

**Figure 3**

Site & Sample Location Map  
 Goodnight Midstream Permian, LLC  
 Blueberry CRP  
 GPS: 32.45911, -103.51960  
 Lea County

**eTECH**



Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 5/10/22

**Table 1**  
**Concentrations of BTEX, TPH & Chloride in Soil**

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Goodnight Midstream Permian, LLC Blueberry CRP NMOCD Ref. #: nAPP2204530872											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
Delineation Samples											
T.T. 1 @ Surface	2/18/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	34,400
T.T. 1 @ 1'	2/18/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
T.T. 2 @ Surface	2/18/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	33,200
T.T. 2 @ 1'	2/18/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
N DEF 1 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
N DEF 1 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
N DEF 2 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,280
N DEF 2 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
E DEF 1 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	19,200
E DEF 1 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
E DEF 2 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	20.0	20.0	<10.0	20.0	608
E DEF 2 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
S DEF 1 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,460
S DEF 1 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
S DEF 2 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,200
S DEF 2 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
W DEF 1 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	17,200
W DEF 1 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
W DEF 1 @ 2'	3/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
W DEF 2 @ Surface	2/21/2022	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	7,460
W DEF 2 @ 1'	2/21/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	736
W DEF 2 @ 2'	3/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
Excavation Samples											
NW 1	3/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NW 2	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 3	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
NW 4	3/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
NW 5	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
EW 1	3/1/2022	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 2	3/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW 1	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
SW 2	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
WW 1	3/1/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
WW 2	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 3	3/2/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 1 @ 3'	2/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 2 @ 3'	2/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 3 @ 3'	2/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 4 @ 1'	2/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 5 @ 1'	2/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0

Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.*Italicized* : NMOCD Reclamation Standard exceedance.

<b>Table 1</b> <b>Concentrations of BTEX, TPH &amp; Chloride in Soil</b> <b>Goodnight Midstream Permian, LLC</b> <b>Blueberry CRP</b> <b>NMOCD Ref. #: nAPP2204530872</b>											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL 6 @ 1'	2/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 7 @ 1'	2/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 8 @ 1'	2/28/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 9 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL 10 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 11 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 12 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 13 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL 14 @ 1.5'	3/1/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL 15 @ 1.5'	3/2/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 16 @ 1.5'	3/2/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 17 @ 1.5'	3/2/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 18 @ 1.5'	3/2/2022	1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL 19 @ 4'	3/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0

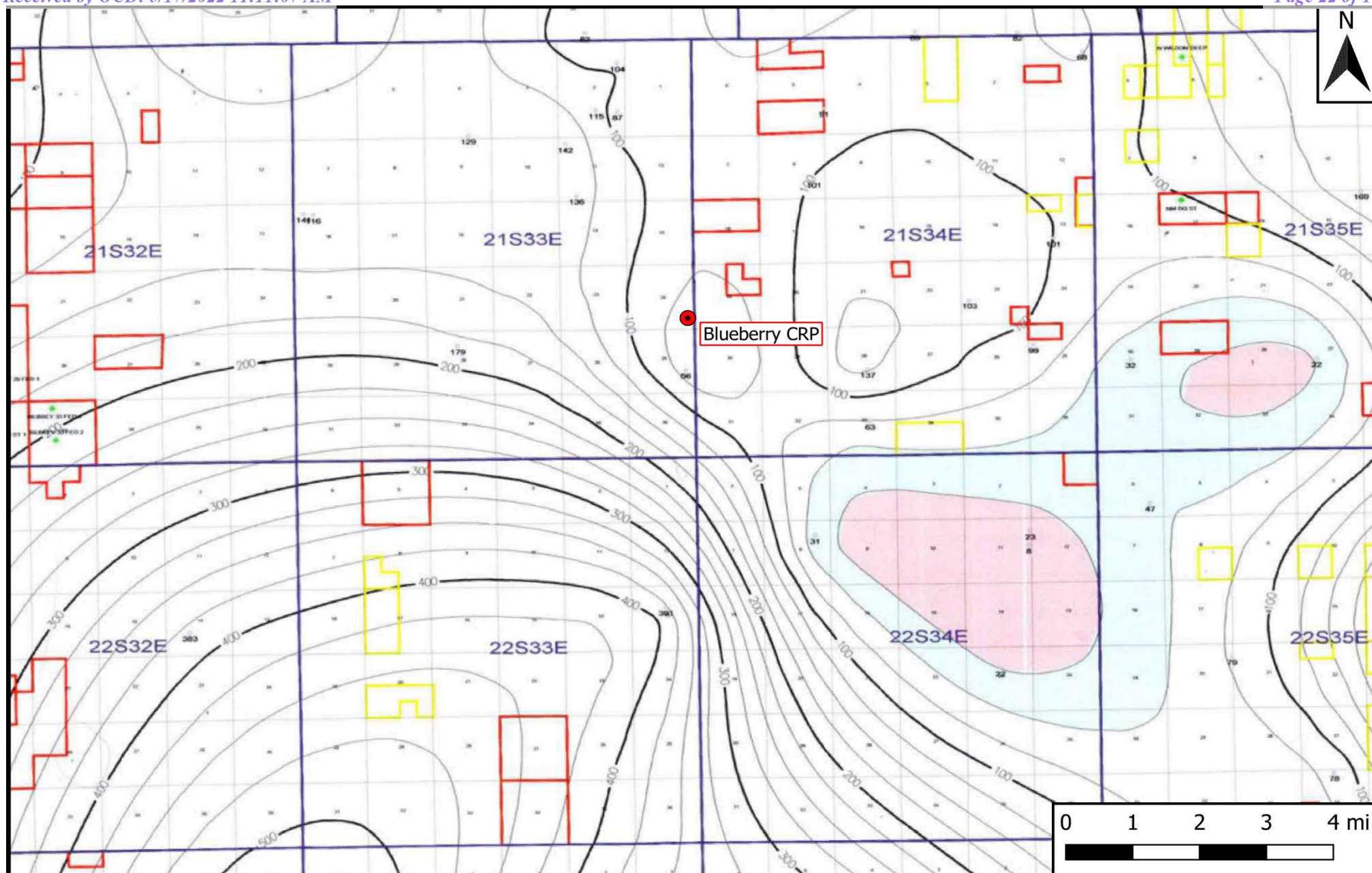
Dash (-): Sample not analyzed for that constituent.

**Bold:** NMOCD Closure Criteria exceedance.*Italicized* : NMOCD Reclamation Standard exceedance.



## **Appendix A**

### **Depth to Groundwater Information**



## Legend

- Site Location

## Figure 4

Inferred Depth to Groundwater Trend Map  
 Goodnight Midstream Permian, LLC  
 Blueberry CRP  
 GPS: 32.45911, -103.51960  
 Lea County



Drafted: bja

Checked: jwl

Date: 4/16/22



# 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
<a href="#">CP 00600 POD1</a>		CP	LE	2	4	25	21S	33E		639152	3591054*	1275	65		
<a href="#">CP 00765 POD1</a>		CP	LE	3	2	13	21S	33E		638698	3594668*	2385	508		
<a href="#">CP 00766 POD1</a>		CP	LE	3	2	13	21S	33E		638698	3594668*	2385	510		
<a href="#">CP 01887 POD1</a>		CP	LE	2	2	2	35	21S	33E	637492	3590319	2615			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

**Record Count:** 4

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 639166.61

**Northing (Y):** 3592329.38

**Radius:** 3220

\*UTM location was derived from PLSS - see Help

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.


5/9/22 6:40 PM

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)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng
	CP 00600 POD1	2	4	25	21S	33E	639152 3591054* 
<hr/>							
Driller License: 122		Driller Company:		UNKNOWN			
Driller Name:							
Drill Start Date:		Drill Finish Date:		Plug Date:			
Log File Date:		PCW Rcv Date:		Source:		Shallow	
Pump Type:		Pipe Discharge Size:		Estimated Yield: 3 GPM			
Casing Size: 6.63		Depth Well:		65 feet		Depth Water:	
<hr/>							

\*UTM location was derived from PLSS - see Help

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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng
CP	00765 POD1	3	2	13	21S	33E	638698 3594668*
Driller License: 122		Driller Company: UNKNOWN					
Driller Name: GRADY ROBERTS							
Drill Start Date:		Drill Finish Date:		11/01/1953		Plug Date:	
Log File Date:		PCW Rcv Date:				Source: Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield: 11 GPM	
Casing Size: 6.63		Depth Well:		508 feet		Depth Water:	

\*UTM location was derived from PLSS - see Help

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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)	
		(quarters are smallest to largest)				X	Y
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng
CP	00766 POD1	3	2	13	21S	33E	638698 3594668*
Driller License: 122		Driller Company: UNKNOWN					
Driller Name: GRADY ROBERTS							
Drill Start Date: 02/11/1961		Drill Finish Date: 03/13/1961		Plug Date:			
Log File Date:		PCW Rev Date:		Source: Shallow			
Pump Type:		Pipe Discharge Size:		Estimated Yield: 11 GPM			
Casing Size: 7.00		Depth Well: 510 feet		Depth Water:			

\*UTM location was derived from PLSS - see Help

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.



# New Mexico Office of the State Engineer

## Point of Diversion Summary

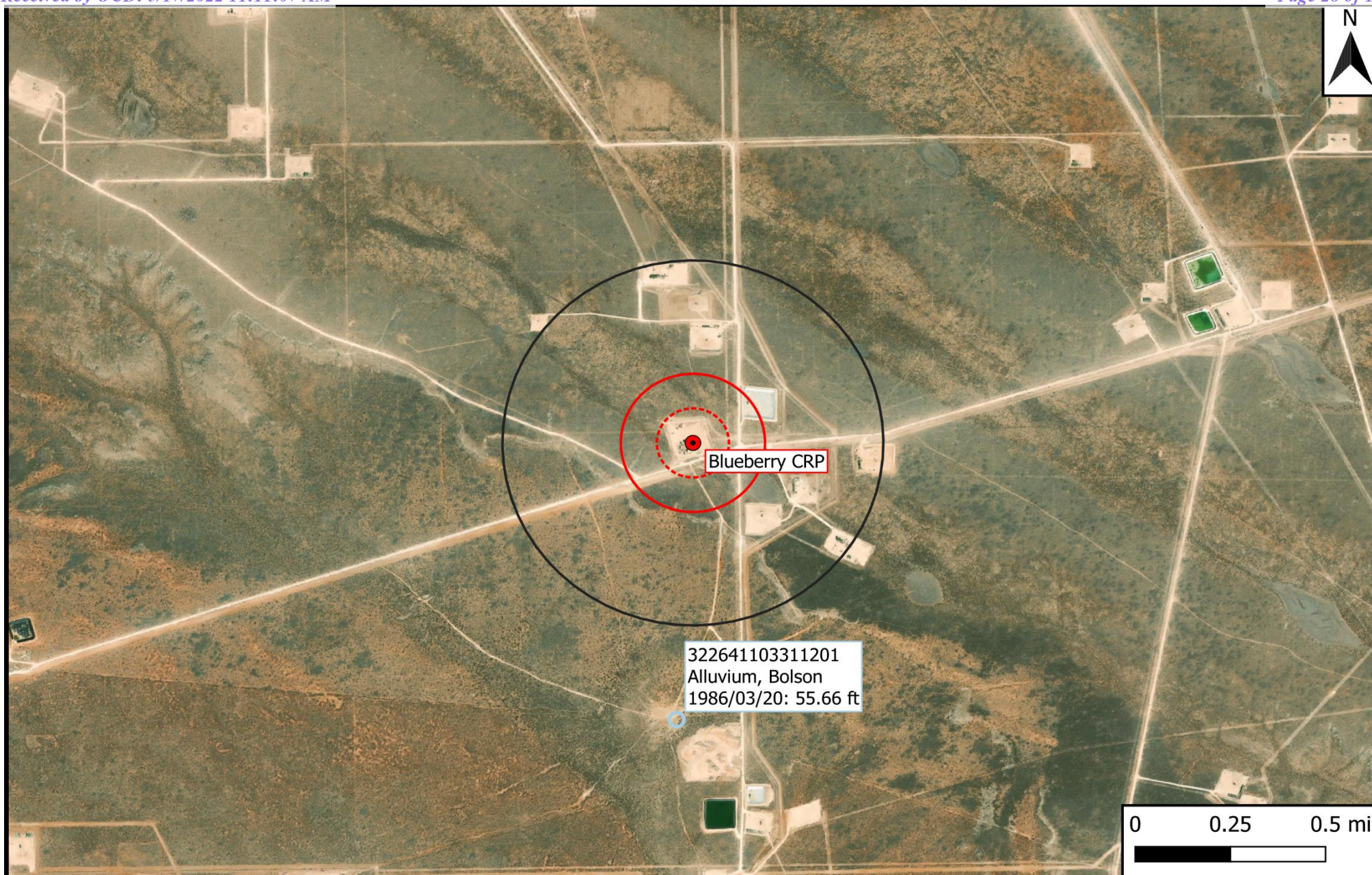
		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	CP 01887 POD1	2	2	2	35	21S	33E	637492	3590319
<hr/>									
<b>Driller License:</b> 1249		<b>Driller Company:</b> ATKINS ENGINEERING ASSOC. INC.							
<b>Driller Name:</b> ATKINS, JACKIE D.UELENER									
<b>Drill Start Date:</b> 10/07/2021		<b>Drill Finish Date:</b> 10/07/2021		<b>Plug Date:</b> 10/14/2021					
<b>Log File Date:</b> 11/02/2021		<b>PCW Rcv Date:</b>		<b>Source:</b>					
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>		<b>Estimated Yield:</b>					
<b>Casing Size:</b>		<b>Depth Well:</b>		<b>Depth Water:</b>					

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.

3/10/22 11:37 AM

POINT OF DIVERSION SUMMARY





## Legend

- Site Location
- Well - USGS
- ⋯ 500-Ft Radius
- ▭ 1,000-Ft Radius
- ▭ 0.5-Mi Radius

## Figure 5

USGS Well Proximity Map  
Goodnight Midstream Permian, LLC  
Blueberry CRP  
GPS: 32.45911, -103.51960  
Lea County


**eTECH**  
Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: jwl

Date: 4/16/22



 An official website of the United States government  
[Here's how you know](#) ▾



MENU

- Explore the **NEW** [USGS National Water Dashboard](#) interactive map to access real-time data from over 13,500 stations nationwide.



# 21S.33E.25.42322



**IMPORTANT** [Inventory Page](#) 

Monitoring location 322641103311201 is associated with a WELL in LEA COUNTY, NEW MEXICO. Water data back to 1968 are available online.

☐ 1 year ☐ 10 years

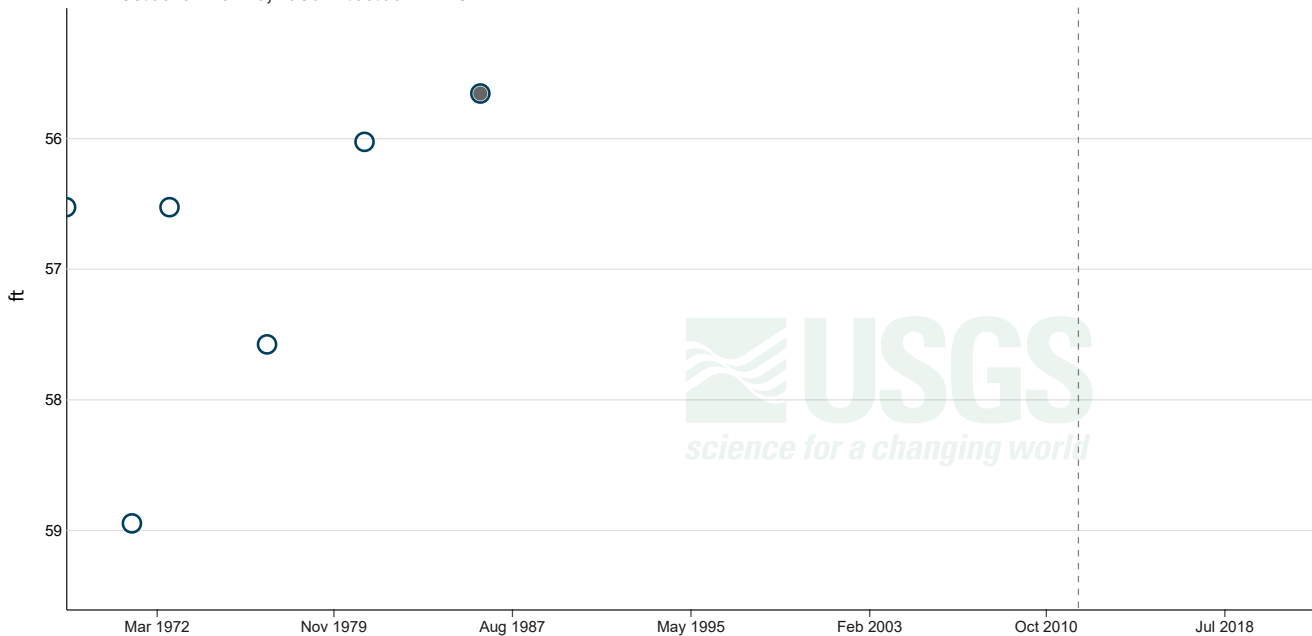
☒ Period of record

Change time span

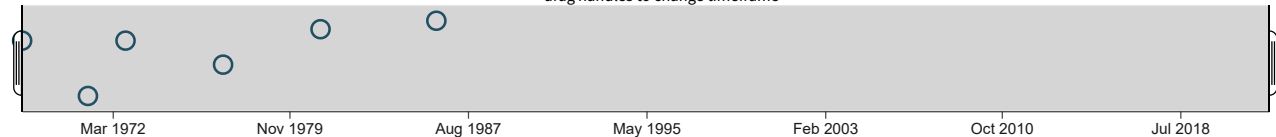
↓ Retrieve data

## Depth to water level, ft below land surface

55.66 ft - Mar 20, 1986 12:00:00 AM MST



drag handles to change timeframe



Questions or Comments

☐

 Compare to last year

☐

 Display median

Field visit:

☒ Approved

IMPORTANT

 Data may be provisional - [learn more](#)

### Select Data to Graph

1968-03-28 to 1986-03-20

☒ Depth to water level, ft below land surface

1968-03-28 to 1986-03-20

☐ Groundwater level above NAVD 1988, ft

1968-03-28 to 1986-03-20

☐ Groundwater level above NGVD 1929, feet

Hydrograph data table(s)

—

#### Field visit data

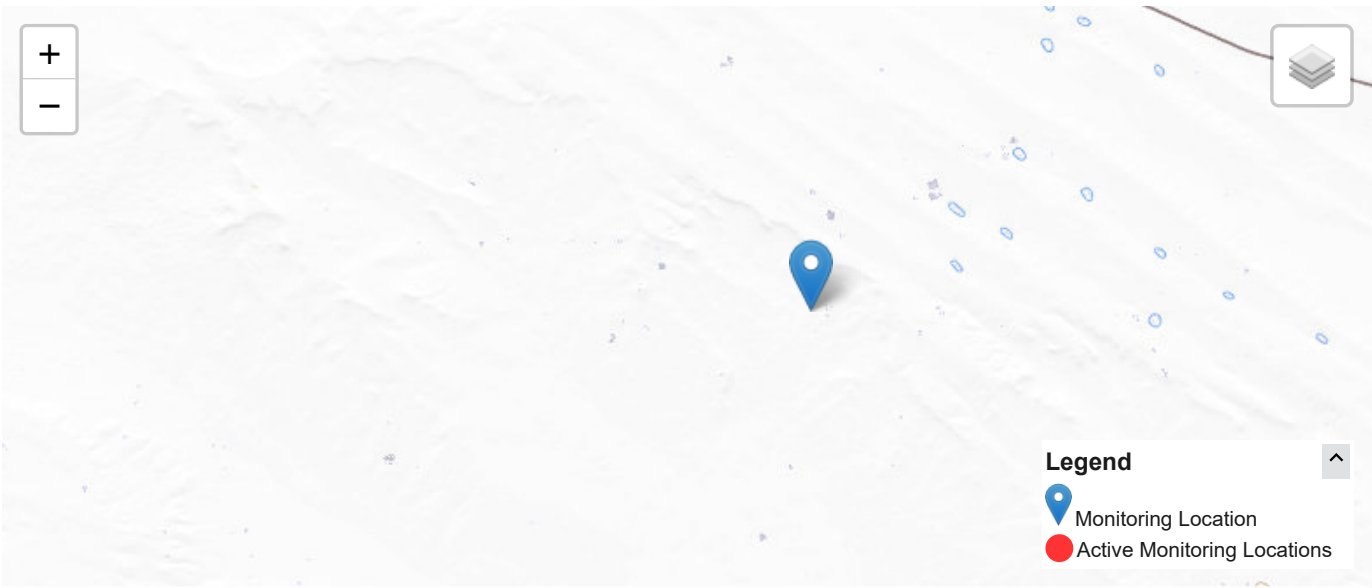
Parameter	Time	Result	Accuracy	Approval	Qualifiers
Depth to water level, ft below land surface	1968-03-28	56.53	0.01	Approved	Static
Depth to water level, ft below land surface	1971-02-04	58.95	0.01	Approved	Static
Depth to water level, ft below land surface	1972-09-22	56.53	0.01	Approved	Static
Depth to water level, ft below land surface	1976-12-16	57.58	0.01	Approved	Static
Depth to water level, ft below land surface	1981-03-10	56.03	0.01	Approved	Static
Depth to water level, ft below land surface	1986-03-20	55.66	0.01	Approved	Static

Groundwater Data BETA

i

Why don't I see a groundwater graph?

No groundwater level statistical daily data has been reported for this location.



Map data by Esri | USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography D...

[About the Network-Linked Data Index \(NLDI\)](#)

Affiliated Networks BETA

[NWIS Monitoring Locations](#)

Summary of All Available Data


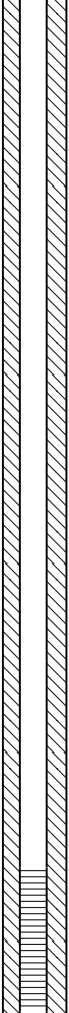
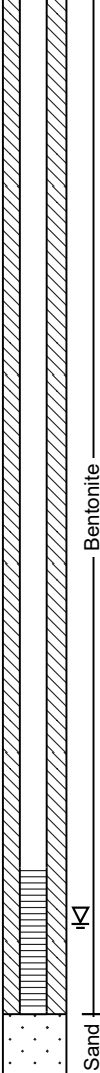

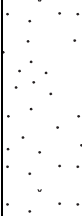
USGS Parameter Group	Data Types	Start Date	End Date
Physical	Groundwater Levels	1968-03-28	1986-03-20

[Water Data for the Nation inventory](#)

Location Metadata



## Soil Boring/Temporary Monitor Well TMW-1

<b>Company:</b> Goodnight Midstream Permian, LLC			<b>Well/Borehole ID:</b> TMW-1	<b>Drilling Company:</b> Scarborough Drilling, Inc.			
<b>Site:</b> Blueberry SWD			<b>Coordinates (NAD 83):</b> 32.459725,-103.520119	<b>Driller:</b> L. Scarborough			
<b>NMOCD Reference #:</b> nRM2010753767			<b>Drilling Date:</b> 9/15/2021	<b>Drilling Method:</b> Air Rotary			
<b>Location:</b> Lea Co., NM			<b>Depth of Boring (ft):</b> 150	<b>Logged By:</b> L. Scarborough			
<b>PLSS:</b> U/L "P" (SE/SE), Sec. 24, T21S, R33E			<b>Depth to Groundwater (ft):</b> 128.8	<b>Drafted By:</b> B. Arguijo			
			<b>Plugging Date:</b> 10/25/2021	<b>Draft Date:</b> 10/29/2021			
<b>Completion:</b> N/A			<b>Casing:</b> N/A	<b>Screen:</b> N/A			
<b>Comments:</b> N/A							
Depth (ft)	Groundwater	Lithology	Material Description	Chloride Field Test	Lab	PID	Well Construction
10			Caliche Topsoil	-	-	-	 <div>Bentonite</div> <div>Sand</div>
20			Caliche	-	-	-	
30				-	-	-	
40				-	-	-	
50				-	-	-	
60				-	-	-	
70				-	-	-	
80				-	-	-	
90				-	-	-	
100				-	-	-	
110				-	-	-	
120				-	-	-	
130			Loose sand	-	-	-	
140				-	-	-	
150				-	-	-	
160			Notes: • Lines between material types represent approximate boundaries. Actual transitions may be gradual. • Due to the non-cohesive nature of the soil at lower depths, water was injected beginning at approximately 120 feet below ground surface (bgs) to prevent collapse of the borehole. • Borehole collapsed from approximately 141.5' to 150' bgs.				
170							

**Disclaimer** This bore log is intended for environmental not geotechnical purposes.

## **Appendix B**

### **Field Data**



# Sample Log

Date: \_\_\_\_\_

Project: Blueberry 2-2022

Project Number: 15603      Latitude: 32.45945      Longitude: -103.51928

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ surface (6" scrape)	-	High Strip 8.8 (14052)	
SP1 @ 1'	-	Low Strip 1.8 (196)	
SP2 @ surface (6" scrape)	-	High Strip 2.0 (141052)	
SP2 @ 1'	-	Low Strip 2.0 (196)	
Deferred		260	
NDEF1 @ surface	-	-	
NDEF1 @ 1'	-	196	
EDEF1 @ surface	-	-	
EDEF1 @ 1'	-	260	
SDEF1 @ surface	-	-	
SDEF1 @ 1'	-	196	
NDEF2 @ surface	-	-	
NDEF2 @ 1'	-	196	
EHDEF2 @ surface	-	-	
EHDEF2 @ 1'	-	165	
SDEF2 @ surface	-	-	
SDEF2 @ 1'	-	260	
Confirmation		(under 300)	
FL1 @ 1'	-	5.8 = 308 (1232)	
FL1 @ 2'	-	4.2 = 162 (648)	
FL2 @ 1'	-	5.8 = 308 (1,232)	
FL2 @ 2'	-	4.0 = 148 (596)	
FL1 @ 3'	-	1.6 = 37 (148)	
FL2 @ 3'	-	1.8 = 43 (172)	
FL3 @ 3'	-	1.6 = 37 (148)	
FL4 @ 1'	-	2.4 = 65 (260)	
FL5 @ 1'	-	2.6 = 74 (296)	
FL6 @ 1'	-	2.0 = 49 (196)	
FL7 @ 1'	-	2.8 = 83 (332)	
FL8 @ 1'	-	2.0 = 49 (196)	
EW1	-	2.8 = 83 (332)	
FL9 @ 1'	-	3.6 = 125 (500)	
FL10 @ 1'	-	3.8 = 137 (548)	
FL11 @ 1'	-	3.6 = 125 (500)	
FL9 @ 1.5'	-	2.6 = 674 (292)	
FL10 @ 1.5'	-	2.4 = 65 (260)	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas

## Sample Log

Date: \_\_\_\_\_

Project: \_\_\_\_\_  
Project Number: \_\_\_\_\_ Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

[illegible]

**Sample Point = SP #1 @ ## etc**

**Floor = FL #1 etc**

**Sidewall = SW #1 etc**

**Test Trench = TT #1 @ ##**

**Refusal = SP #1 @ 4'-R**

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

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

**Stockpile = Stockpile #1**

### GPS Sample Points, Center of Comp Areas

## **Appendix C**

### **Laboratory Analytical Reports**





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

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February 26, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY 2/22

Enclosed are the results of analyses for samples received by the laboratory on 02/21/22 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	02/21/2022	Sampling Date:	02/18/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY 2/22	Sampling Condition:	Cool & Intact
Project Number:	15603	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - LEA CO NM		

**Sample ID: T.T. 1 @ SURFACE ( 6" SCRAPE ) (H220669-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2022	ND	2.06	103	2.00	5.50		
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5		
Total BTEX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/18/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: T.T. 1 @ 1' (H220669-02)**

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	02/25/2022	ND	2.06	103	2.00	5.50		
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0		
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1		
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5		
Total BTEX	<0.300	0.300	02/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 86.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.0 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	02/21/2022	Sampling Date:	02/18/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY 2/22	Sampling Condition:	Cool & Intact
Project Number:	15603	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - LEA CO NM		

**Sample ID: T.T. 2 @ SURFACE ( 6" SCRAPE ) (H220669-03)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	33200	16.0	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	02/21/2022	Sampling Date:	02/18/2022
Reported:	02/26/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY 2/22	Sampling Condition:	Cool & Intact
Project Number:	15603	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - LEA CO NM		

**Sample ID: T.T. 2 @ 1' (H220669-04)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 1 @ SURFACE (H220669-05)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	02/24/2022	ND	416	104	400	3.92	

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 85.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 1 @ 1' (H220669-06)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/24/2022	ND	416	104	400	3.92	

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E DEF 1 @ SURFACE (H220669-07)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTEx	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19200	16.0	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.5 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E DEF 1 @ 1' (H220669-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S DEF 1 @ SURFACE (H220669-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	02/24/2022	ND	416	104	400	3.92	

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S DEF 1 @ 1' (H220669-10)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	02/24/2022	ND	416	104	400	3.92	

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 1 @ SURFACE (H220669-11)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	02/24/2022	ND	416	104	400	3.92		

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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 90.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 1 @ 1' (H220669-12)**

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	02/25/2022	ND	2.06	103	2.00	5.50	
Toluene*	<0.050	0.050	02/25/2022	ND	2.02	101	2.00	11.0	
Ethylbenzene*	<0.050	0.050	02/25/2022	ND	1.94	97.0	2.00	11.1	
Total Xylenes*	<0.150	0.150	02/25/2022	ND	6.02	100	6.00	10.5	
Total BTX	<0.300	0.300	02/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/24/2022	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 2 @ SURFACE (H220669-13)**

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	02/24/2022	ND	2.10	105	2.00	1.72		
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46		
Total BTX	<0.300	0.300	02/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7280	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N DEF 2 @ 1' (H220669-14)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTEx	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 82.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E DEF 2 @ SURFACE (H220669-15)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTX	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	20.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E DEF 2 @ 1' (H220669-16)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTEx	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 89.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S DEF 2 @ SURFACE (H220669-17)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTX	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S DEF 2 @ 1' (H220669-18)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTEx	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 90.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 2 @ SURFACE (H220669-19)**

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	02/24/2022	ND	2.10	105	2.00	1.72	
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37	
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46	
Total BTX	<0.300	0.300	02/24/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7460	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 02/21/2022  
 Reported: 02/26/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 2 @ 1' (H220669-20)**

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	02/24/2022	ND	2.10	105	2.00	1.72		
Toluene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.34		
Ethylbenzene*	<0.050	0.050	02/24/2022	ND	2.07	103	2.00	1.37		
Total Xylenes*	<0.150	0.150	02/24/2022	ND	6.38	106	6.00	1.46		
Total BTEx	<0.300	0.300	02/24/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	02/24/2022	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	02/24/2022	ND	227	113	200	1.26	
DRO >C10-C28*	<10.0	10.0	02/24/2022	ND	212	106	200	0.964	
EXT DRO >C28-C36	<10.0	10.0	02/24/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





---

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### Notes and Definitions

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

---

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

---

Caley D. Keene, Lab Director/Quality Manager









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---

March 04, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY 2/22

Enclosed are the results of analyses for samples received by the laboratory on 03/01/22 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received:	03/01/2022	Sampling Date:	02/22/2022
Reported:	03/04/2022	Sampling Type:	Soil
Project Name:	BLUEBERRY 2/22	Sampling Condition:	Cool & Intact
Project Number:	15603	Sample Received By:	Tamara Oldaker
Project Location:	GOODNIGHT - LEA CO NM		

**Sample ID: FL 1 @ 3' (H220795-01)**

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	03/03/2022	ND	2.02	101	2.00	6.81		
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1		
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1		
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND						

Surrogate: 1-Chlorooctane 122 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 2 @ 3' (H220795-02)**

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	03/03/2022	ND	2.02	101	2.00	6.81	
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/22/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 3 @ 3' (H220795-03)**

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	03/03/2022	ND	2.02	101	2.00	6.81	
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51	
Total BTEx	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.2 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 4 @ 1' (H220795-04)**

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	03/03/2022	ND	2.02	101	2.00	6.81		
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 117 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 5 @ 1' (H220795-05)**

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	03/03/2022	ND	2.02	101	2.00	6.81		
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1		
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1		
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND						

Surrogate: 1-Chlorooctane 121 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 6 @ 1' (H220795-06)**

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	03/03/2022	ND	2.02	101	2.00	6.81	
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 7 @ 1' (H220795-07)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.81	
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/03/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 02/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 @ 1' (H220795-08)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.81		
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 1 (H220795-09)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.81		
Toluene*	<0.050	0.050	03/03/2022	ND	2.01	100	2.00	6.70		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.00	100	2.00	6.37		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.17	103	6.00	6.51		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/04/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 9 @ 1.5' (H220795-10)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/04/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 10 @ 1.5' (H220795-11)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 115 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 11 @ 1.5' (H220795-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEx	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/04/2022	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	03/03/2022	ND	194	97.0	200	12.1	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 1 (H220795-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/04/2022	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	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 131 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EW 2 (H220795-14)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTEx	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/04/2022	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	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 108 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 @ 1.5' (H220795-15)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	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	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 131 % 66.9-136

Surrogate: 1-Chlorooctadecane 131 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 13 @ 1.5' (H220795-16)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/04/2022	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	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 14 @ 1.5' (H220795-17)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20	
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18	
Total BTX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/04/2022	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 139 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/01/2022  
 Reported: 03/04/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/01/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 1 (H220795-18)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/03/2022	ND	2.01	101	2.00	5.20		
Toluene*	<0.050	0.050	03/03/2022	ND	2.07	104	2.00	2.39		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	6.52		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.29	105	6.00	6.18		
Total BTX	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/04/2022	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/03/2022	ND	209	104	200	0.487	
DRO >C10-C28*	<10.0	10.0	03/03/2022	ND	208	104	200	4.06	
EXT DRO >C28-C36	<10.0	10.0	03/03/2022	ND					

Surrogate: 1-Chlorooctane 139 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

## ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Etech Environmental & Safety Solutions, Inc. <b>Project Manager:</b> Joel Lowry <b>Address:</b> 2617 West Marland  <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> (575) 264-9888 <b>Fax #:</b> <b>Project #:</b> 15603 <b>Project Owner:</b> Goodnight Midstream <b>Project Name:</b> Blueberry 2/22 <b>Project Location:</b> Rural Lea Co, NM <b>Sampler Name:</b> Miguel Ramirez						<b>BILL TO</b>						<b>ANALYSIS REQUEST</b>											
						<b>P.O. #:</b> <b>Company:</b> Goodnight Midstream <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>																	
FOR LAB USE ONLY				(G)RAB OR (C)JUMP: # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		PRESERV. ACID/BASE ICE / COOL OTHER :		SAMPLING DATE    TIME		Chloride TPH (8015M) BTEX (8021B)											
<b>Lab I.D.</b>		<b>Sample I.D.</b>																					
H220795																							
1 FL1@3'		C		X		X		2/22/22				X X X											
2 FL2@3'								1															
3 FL3@3'								1															
4 FL4@1'								2/28/22															
5 FL5@1'								1															
6 FL6@1'								1															
7 FL7@1'								1															
8 FL8@1'								1															
9 Fw/I								3/1/22															
10 FL9@1.5'								↓				↓ ↓ ↓											
CASE 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 services. 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: [Signature] Date: 3-1-22 Time: 1530						Received By: [Signature] Date: _____ Time: _____						Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Fax #: _____ REMARKS:											
Delivered By: (Circle One) 3.9c C-D.52 Sampler - UPS - Bus - Other: 3.4c #113						Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						CHECKED BY: (Initials) T-D											

Please email copy of COC and results to pm@etechenv.com.







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

---

March 07, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUEBERRY 2/22

Enclosed are the results of analyses for samples received by the laboratory on 03/02/22 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 2 (H220824-01)**

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/03/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.12	102	6.00	4.44	
Total BTEX	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	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	03/04/2022	ND	217	109	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/04/2022	ND	233	116	200	9.72	
EXT DRO >C28-C36	<10.0	10.0	03/04/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 81.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 3 (H220824-02)**

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	03/03/2022	ND	2.02	101	2.00	4.53		
Toluene*	<0.050	0.050	03/03/2022	ND	2.00	99.9	2.00	4.68		
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.99	99.3	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.12	102	6.00	4.44		
Total BTEx	<0.300	0.300	03/03/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 98.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 4 (H220824-03)**

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	03/03/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/03/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.12	102	6.00	4.44	
Total BTEx	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: NW 5 (H220824-04)**

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	03/03/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/03/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/03/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/03/2022	ND	6.12	102	6.00	4.44	
Total BTEx	<0.300	0.300	03/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/04/2022	ND	400	100	400	3.92		

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 105 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 2 (H220824-05)**

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	03/04/2022	ND	2.02	101	2.00	4.53		
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	99.9	2.00	4.68		
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.99	99.3	2.00	4.61		
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.12	102	6.00	4.44		
Total BTEX	<0.300	0.300	03/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/04/2022	ND	400	100	400	3.92		

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	03/05/2022	ND	215	108	200	1.24		
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2		
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND						

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WW 3 (H220824-06)**

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	03/04/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.12	102	6.00	4.44	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 1 (H220824-07)**

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	03/04/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.12	102	6.00	4.44	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 2 (H220824-08)**

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	03/04/2022	ND	2.02	101	2.00	4.53	
Toluene*	<0.050	0.050	03/04/2022	ND	2.00	99.9	2.00	4.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.99	99.3	2.00	4.61	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	6.12	102	6.00	4.44	
Total BTEx	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	03/04/2022	ND	400	100	400	3.92		

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 15 @ 1.5' (H220824-09)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 16 @ 1.5' (H220824-10)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/04/2022	ND	400	100	400	3.92		

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 17 @ 1.5' (H220824-11)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 18 @ 1.5' (H220824-12)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 19 @ 4' (H220824-13)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 1 @ 2' (H220824-14)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

Etech Environmental & Safety Solutions  
 JOEL LOWRY  
 2617 W MARLAND  
 HOBBS NM, 88240  
 Fax To:

Received: 03/02/2022  
 Reported: 03/07/2022  
 Project Name: BLUEBERRY 2/22  
 Project Number: 15603  
 Project Location: GOODNIGHT - LEA CO NM

Sampling Date: 03/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W DEF 2 @ 2' (H220824-15)**

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	03/04/2022	ND	1.96	97.8	2.00	6.52	
Toluene*	<0.050	0.050	03/04/2022	ND	1.93	96.6	2.00	6.68	
Ethylbenzene*	<0.050	0.050	03/04/2022	ND	1.86	92.8	2.00	6.21	
Total Xylenes*	<0.150	0.150	03/04/2022	ND	5.81	96.9	6.00	5.66	
Total BTX	<0.300	0.300	03/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/04/2022	ND	400	100	400	3.92	

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	03/05/2022	ND	215	108	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/05/2022	ND	230	115	200	11.2	
EXT DRO >C28-C36	<10.0	10.0	03/05/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 97.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

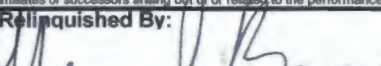
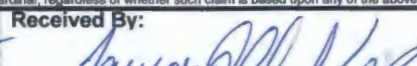
Celey D. Keene, Lab Director/Quality Manager

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 3-2-22	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: _____
Time: 1535				All Results are emailed. Please provide Email address: _____
Relinquished By: _____		Date: _____	Received By: _____	REMARKS: _____
Time: _____				
Delivered By: (Circle One)		Observed Temp. °C 5.9	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other: _____		Corrected Temp. °C 5.4	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) TO
				Thermometer ID #113 Correction Factor -0.6°C
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C



**ARDINAL LABORATORIES**

**101 East Marland, Hobbs, NM 88240**

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST


[illegible]




## **Appendix D**


### **Photographic Log**


## Photographic Log

<b>Photo Number:</b> 1	 <p>Blueberry +32.459457,-103.519329 Feb 4, 2022 at 9:35:22 AM</p>
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> Northwest	
<b>Coordinates:</b> 32.459457,-103.519329	
<b>Photo Description:</b>	
View of the affected area.	

<b>Photo Number:</b> 2	 <p>Blueberry +32.459457,-103.519329 Feb 4, 2022 at 9:35:50 AM</p>
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> North	
<b>Coordinates:</b> 32.459457,-103.519329	
<b>Photo Description:</b>	
View of the affected area.	


## Photographic Log


<b>Photo Number:</b> 3	 <p>Blueberry +32.459457,-103.519329 Feb 4, 2022 at 9:36:17 AM</p>
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> North-Northwest	
<b>Coordinates:</b> 32.459457,-103.519329	
<b>Photo Description:</b>  View of the affected area.	

<b>Photo Number:</b> 4	 <p>Blueberry +32.459457,-103.519329 Feb 4, 2022 at 9:36:22 AM</p>
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> East	
<b>Coordinates:</b> 32.459457,-103.519329	
<b>Photo Description:</b>  View of the affected area.	



## Photographic Log

<b>Photo Number:</b> 5	
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> South	
<b>Coordinates:</b> 32.459564,-103.519491	
<b>Photo Description:</b>	
View of the affected area.	

<b>Photo Number:</b> 6	
<b>Date:</b> 2/4/2022	
<b>Photo Direction:</b> South	
<b>Coordinates:</b> 32.459382,-103.519354	
<b>Photo Description:</b>	
View of the affected area.	


## Photographic Log






## Photographic Log


<b>Photo Number:</b> 9	
<b>Date:</b> 3/2/2022	
<b>Photo Direction:</b> Southeast	
<b>Coordinates:</b> 32.459449,-103.519381	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 10	
<b>Date:</b> 3/2/2022	
<b>Photo Direction:</b> South	
<b>Coordinates:</b> 32.459412,-103.519418	
<b>Photo Description:</b>  View of the excavated area.	




## Photographic Log


<b>Photo Number:</b> 11	
<b>Date:</b> 3/2/2022	
<b>Photo Direction:</b> East	
<b>Coordinates:</b> 32.459350,-103.519455	
<b>Photo Description:</b>  View of the excavated area.	

<b>Photo Number:</b> 12	
<b>Date:</b> 3/2/2022	
<b>Photo Direction:</b> Northeast	
<b>Coordinates:</b> 32.459275,-103.519381	
<b>Photo Description:</b>  View of the excavated area.	




## Photographic Log


<b>Photo Number:</b> 13	
<b>Date:</b> 3/17/2022	
<b>Photo Direction:</b> Southeast	
<b>Coordinates:</b> 32.459646,-103.519477	
<b>Photo Description:</b>	
View of the remediated area after backfilling and regrading.	

<b>Photo Number:</b> 14	
<b>Date:</b> 3/17/2022	
<b>Photo Direction:</b> Southeast	
<b>Coordinates:</b> 32.459512,-103.519461	
<b>Photo Description:</b>	
View of the remediated area after backfilling and regrading.	



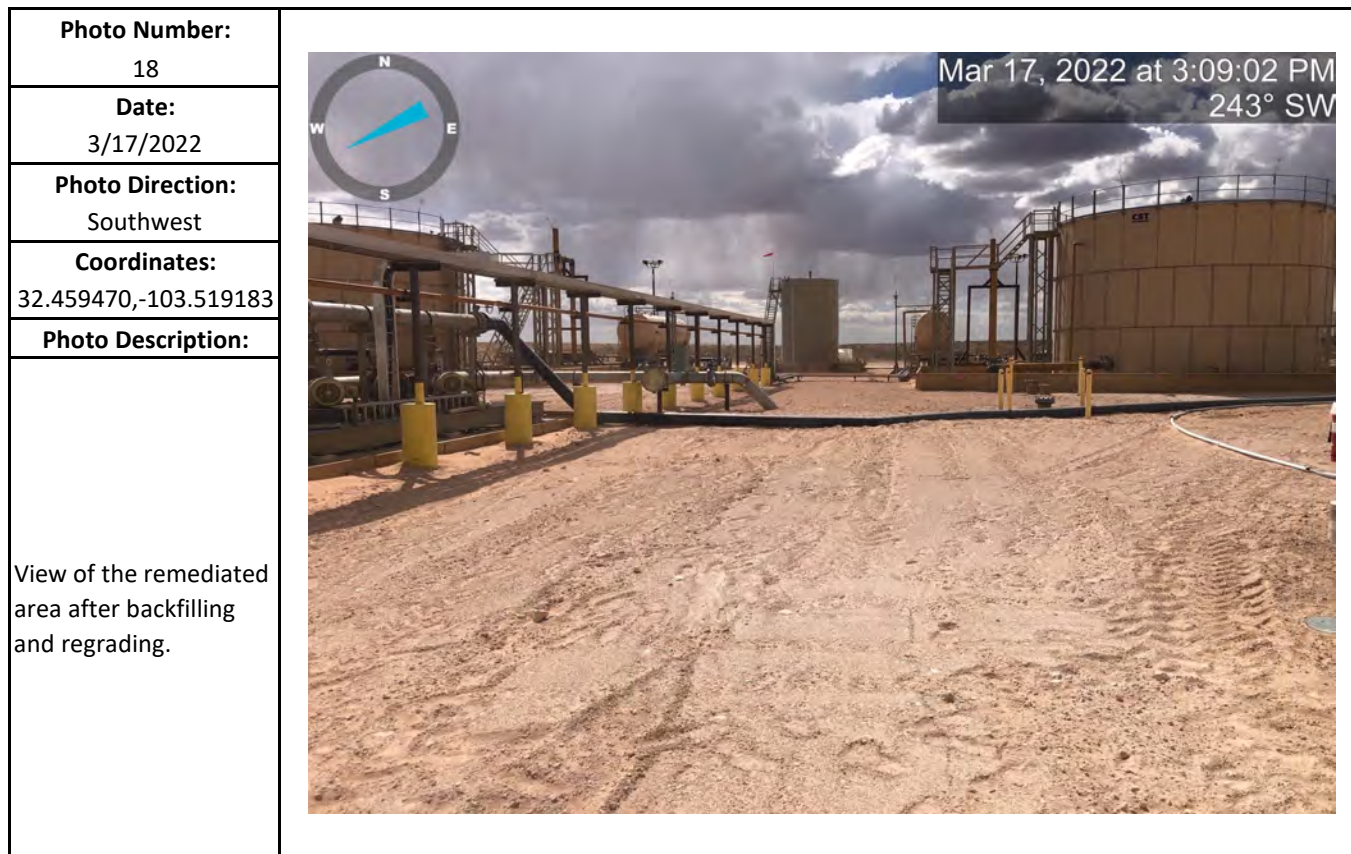
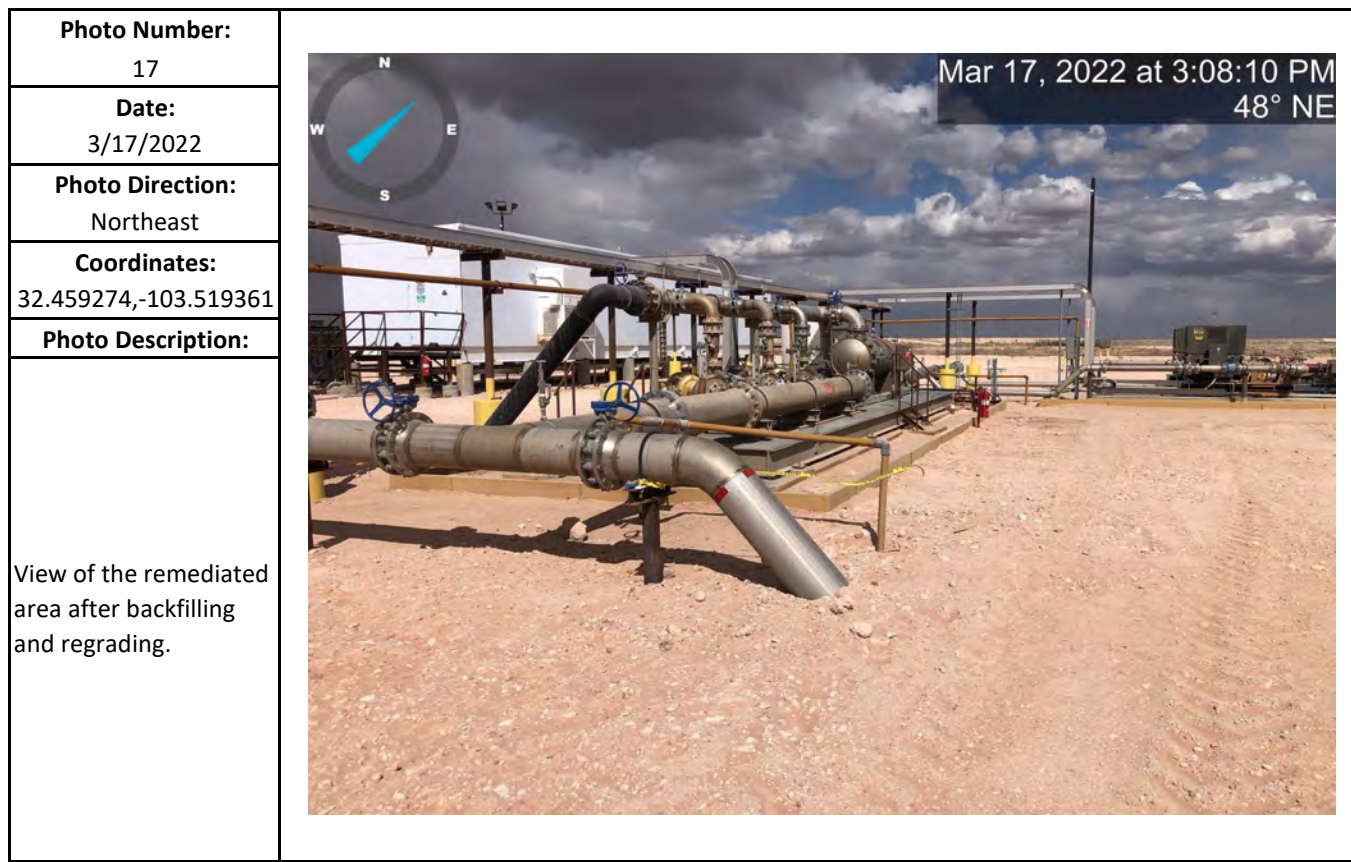
## Photographic Log

<b>Photo Number:</b> 15	 <p>Mar 17, 2022 at 3:07:49 PM 67° NE</p> <p>View of the remediated area after backfilling and regrading.</p>
<b>Date:</b> 3/17/2022	
<b>Photo Direction:</b> Northeast	
<b>Coordinates:</b> 32.459447,-103.519457	
<b>Photo Description:</b>	

<b>Photo Number:</b> 16	 <p>Mar 17, 2022 at 3:08:00 PM 72° E</p> <p>View of the remediated area after backfilling and regrading.</p>
<b>Date:</b> 3/17/2022	
<b>Photo Direction:</b> East	
<b>Coordinates:</b> 32.459320,-103.519437	
<b>Photo Description:</b>	



## Photographic Log



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 107543

**CONDITIONS**

Operator: GOODNIGHT MIDSTREAM PERMIAN, LLC 5910 North Central Expressway Dallas, TX 75206	OGRID: 372311
	Action Number: 107543
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	5/31/2022