

Incident ID	nAPP2227228730
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>171.5</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 not 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.

Form C-141

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: Risa CzarnikowTitle: Production TechSignature: Risa CzarnikowDate: 3-29-23email: rczarnikow@helmsoil.comTelephone: (432) 688-3727**OCD Only**Received by: Jocelyn HarimonDate: 03/29/2023

State of New Mexico
Oil Conservation Division

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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Risa Czarnikow

Title: Production Tech

Signature: Risa CzarnikowDate: 3-29-23email: rczarnikow@helmsoil.comTelephone: (432) 688-3727**OCD Only**Received by: Jocelyn HarimonDate: 03/29/2023☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☒ Deferral ApprovedSignature: Jennifer NobuiDate: 05/02/2023

Remediation Summary and Deferral Request

H.L. Brown Operating, LLC Bluitt Central Tank Battery

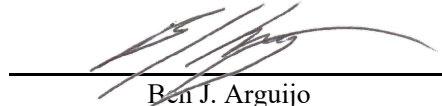
Roosevelt County, New Mexico
Unit Letter P, Section 5, Township 8 South, Range 37 East
Latitude 33.644362 North, Longitude 103.169487 West
NMOCD Reference No. nAPP2227228730

Prepared By:

Etech Environmental & Safety Solutions, Inc.
2617 W. Marland
Hobbs, New Mexico 88240



Matthew Grieco



Ben J. Arguijo



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this *Remediation Summary and Deferral Request* for the release site known as the Bluitt Central Tank Battery (henceforth, "Bluitt CTB"). Details of the release are summarized below:

Location of Release Source

Latitude: 33.644362 Longitude: -103.169487

Provided GPS are in WGS84 format.

Site Name:	Bluitt CTB	Site Type:	Tank Battery
Date Release Discovered:	9/7/2022	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
P	5	8S	37E	Roosevelt

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name BROWN H L JR)

Nature and Volume of Release

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <u>10</u>	Volume Recovered (bbls) <u>0</u>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input 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:

Unknown historic release found during site inspection.

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 Bluitt CTB. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	171.5 Feet	
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
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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 and Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on 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, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standard for the Bluitt CTB are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
171.5 Feet	Chloride (Cl-)	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	-
	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 REMEDIATION ACTIVITIES SUMMARY

On November 8, 2022, Etech conducted an initial site assessment. During the initial site assessment, a series of test trenches were advanced within the release margins in an effort to determine the vertical extent of soil impacts. During the advancement of the test trenches, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing visual/olfactory senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, five (5) vertical delineation soil samples at depths of 4, 6, 8, 10, and 12 feet were collected from both test trench T.T. 1 and test trench T.T. 2. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criterion in each of the submitted soil samples. BTEX concentrations were below the NMOCD Closure Criterion in each of the samples, with the exceptions of samples T.T. 1 @ 4' (75.8 mg/kg), T.T. 2 @ 10' (144 mg/kg), and T.T. 2 @ 12' (125 mg/kg). GRO+DRO concentrations were below the NMOCD Closure Criterion in each of the samples, with the exceptions of samples T.T. 1 @ 4' (5,560 mg/kg), T.T. 1 @ 10' (2,850 mg/kg), T.T. 2 @ 10' (2,020 mg/kg), and T.T. 2 @ 12' (6,910 mg/kg). TPH concentrations were below the NMOCD Closure Criterion in each of the samples, with the exceptions of samples T.T. 1 @ 4' (5,780 mg/kg), T.T. 1 @ 10' (2,910 mg/kg), and T.T. 2 @ 12' (7,310 mg/kg).

On December 6, 2022, Etech returned to the Bluitt CTB to continue the assessment. Test trench 2 was further advanced in an effort to determine the vertical extent of soil impacts. In addition, hand-augered soil bores were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the soil bores and test trench, field soil samples were collected and field-screened for the presence of VOCs utilizing visual/olfactory senses and concentrations of chloride utilizing a Hach Quantab ® chloride test kit.

Based on field observations and field test data, four (4) horizontal delineation soil samples (EH 1 @ 6', NH 1 @ 6', SH 1 @ 6', and WH 1 @ 6') were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Additionally, two (2) vertical delineation soil samples (T.T. 2 @ 14' and T.T. 2 @ 16') were submitted to the laboratory for analysis of BTEX and TPH. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On December 7, 2022, remediation activities commenced at the Bluitt CTB. In accordance with NMOCD regulations, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The larger, primary excavation was adjacent to the south and east sides of the aboveground tanks. The smaller, secondary excavation was northwest of the primary excavation. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria. Confirmation samples of the excavated areas were collected from the floors and sidewalls at 200-square-foot intervals.

On January 3, 2023, Etech collected ten (10) floor confirmation soil samples (FL 1 @ 8' through FL 10 @ 2') and eight (8) wall confirmation soil samples (EW 1, EW 2, NW 1, NW 2, SW 1, SW 2, WW 1, and WW 2). The collected 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 NMOCD Closure Criteria in each of the submitted soil samples.

On January 5, 2023, Etech collected four (4) floor confirmation soil samples (FL 11 @ 1' through FL 14 @ 1') and seven (7) wall confirmation soil samples (EW 3, NW 3, NW 4, SW 3, SW 4, WW 3, and WW 4). The collected 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 NMOCD Closure Criteria in each of the submitted soil samples.

On January 6, 2023, Etech collected two (2) deferral characterization soil samples (DC 1 and DC 2) from the impacted soil remaining in-situ beneath the on-site tanks inferred to be affected above the NMOCD Closure Criteria. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations were above the NMOCD Closure Criterion in both DC 1 (4,840 mg/kg GRO+DRO and 5,290 mg/kg TPH) and DC 2 (3,960 mg/kg GRO+DRO and 4,220 mg/kg TPH).

In addition, Etech collected a horizontal delineation soil sample (WH 2) in an effort to further characterize and define the horizontal extent of impacted soil affected above the NMOCD Closure Criteria remaining in-site beneath the on-site tanks. The collected soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in the submitted soil sample.

A site and sample location map is provided as Figure 3. A soil chemistry table is provided as Table 1. Field data is provided as Appendix B. Laboratory analytical reports are provided as Appendix C. A photographic log of the Bluit CTB is provided as Appendix D.

The final dimensions of the primary excavation ranged from six (6) to 52 feet in length, six (6) to 290 feet in width, and one (1) to eight (8) feet in depth. The final dimensions of the secondary excavation were nineteen (19) feet long, seven (7) feet wide, and two (2) feet deep. During the course of remediation activities, approximately 500 cubic yards of impacted soil were transported to an NMOCD-approved surface waste facility for disposal.

5.0 RESTORATION, RECLAMATION, AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas were entirely on the production pad, and will be reseeded with the closure and reclamation of the Bluit CTB.

6.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulations. Impacted soil affected above the NMOCD Closure Criteria was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria, with the exceptions of samples T.T. 1 @ 10', T.T. 2 @ 10', T.T. 2 @ 12', DC 1, and DC 2.

Impacted soil remaining in-situ represented by samples T.T. 1 @ 10', T.T. 2 @ 10', T.T. 2 @ 12', DC 1, and DC 2 is adjacent to and/or underneath the permanent tanks and appurtenances. The impacted area has been fully delineated to verify that it does not extend beyond the boundaries of the tank containment. Further excavation of the impacted area poses a safety risk and would require a major facility deconstruction. As there is no vegetation or shallow groundwater present at the release site that would be affected by the impacted soil remaining in-situ, pursuant to Section 19.15.29.12.C(2) NMAC, leaving the contamination in-situ "does not cause an imminent risk to human health, the environment, or ground water". Final remediation and reclamation of the affected area will be conducted upon decommissioning and abandonment of the facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

Based on laboratory analytical results and field activities conducted to date, Etech recommends H.L. Brown Operating, LLC, provide copies of this *Remediation Summary and Deferral Request* to the appropriate agencies and request deferral be granted to the Bluit CTB site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary and Deferral Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced 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 H.L. Brown Operating, LLC. Use of the information contained in this report is prohibited without the consent of Etech and/or H.L. Brown Operating, LLC.

8.0 DISTRIBUTION

H.L. Brown Operating, LLC

300 West Louisiana

Midland, TX 79702-2237

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1

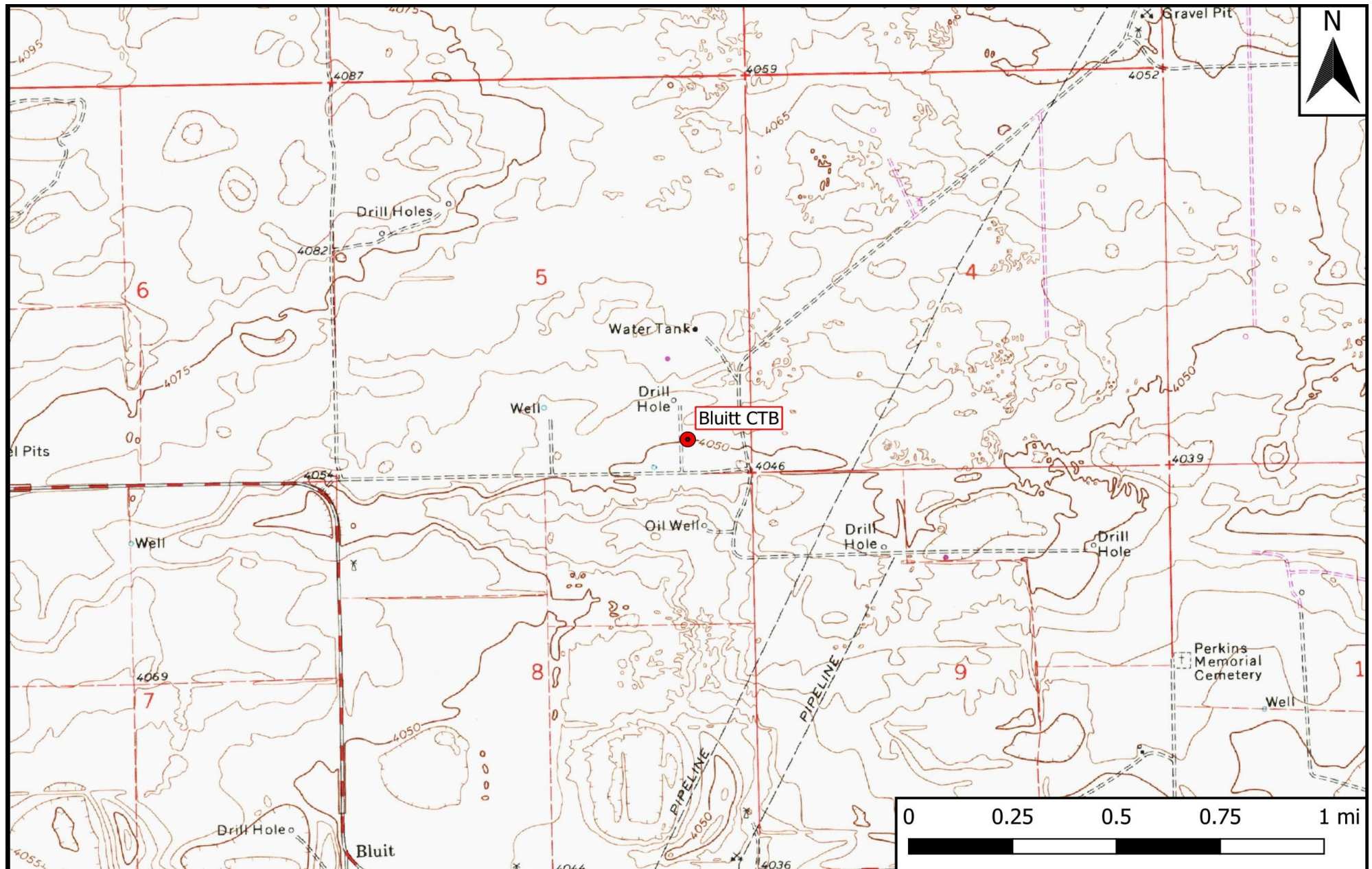
1220 South St. Francis Drive

Santa Fe, NM 87505

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1

Topographic Map

H.L. Brown Operating, LLC

Bluit CTB

GPS: 33.644362, -103.169487

Roosevelt County



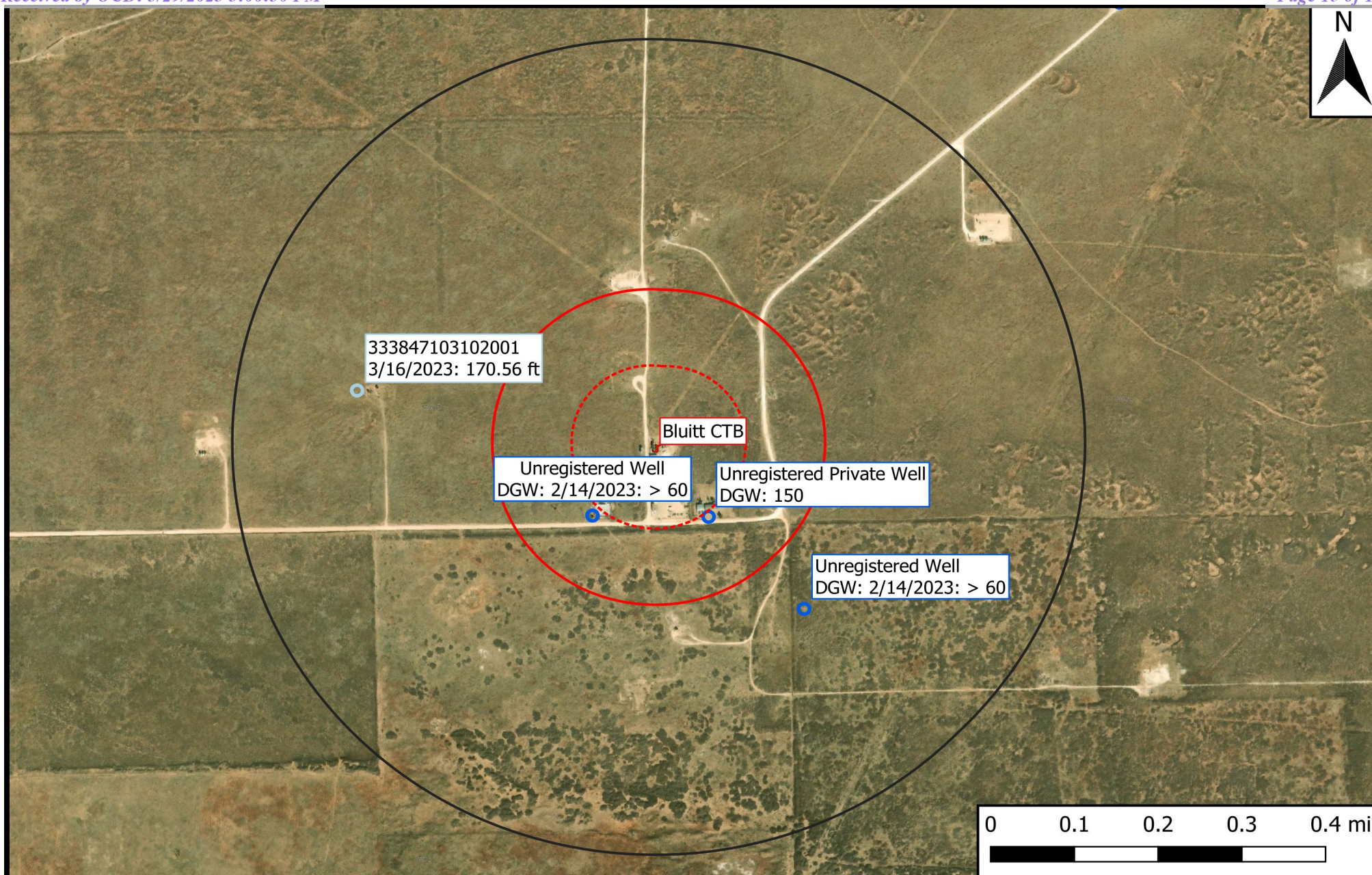
Drafted: mag

Checked: bja

Date: 1/25/23

Figure 2

Aerial Proximity Map



Legend

- Excavation Extent
- Well - NMOSE
- Well - USGS
- Potash Mine Workings
- Medium/High Karst

- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius
- 100-Year Floodplain
- Lake/Freshwater Pond
- Emergent/Forested Wetlands
- Riverine

Figure 2

Aerial Proximity Map
H.L. Brown Operating, LLC
Bluitt CTB
GPS: 33.644362, -103.169487
Roosevelt County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: bja

Checked: zc

Date: 3/17/23

Figure 3

Site and Sample Location Map



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

Table 1
Concentrations of BTEX, TPH, and Chloride in Soil
H.L. Brown Operating, LLC
Bluitt CTB
NMOCD Ref. #: nAPP2227228730

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 ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
Delineation Samples											
EH 1 @ 6'	12/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NH 1 @ 6'	12/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SH 1 @ 6'	12/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 1 @ 6'	12/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
WH 2	1/6/2023	6	In-Situ	<0.050	<0.300	<10.0	18.7	18.7	10.0	28.7	48.0
T.T. 1 @ 4'	11/8/2022	4	Excavated	1.44	75.8	2,660	2,900	5,560	216	5,780	800
T.T. 1 @ 6'	11/8/2022	6	Excavated	<0.050	2.04	57.5	89.4	147	<10.0	147	1,570
T.T. 1 @ 8'	11/8/2022	8	Excavated	<0.050	2.83	75.9	155	231	<10.0	231	912
T.T. 1 @ 10'	11/8/2022	10	Deferred	0.611	44.8	1,290	1,560	2,850	57.0	2,910	752
T.T. 1 @ 12'	11/8/2022	12	In-Situ	0.0860	14.1	73.6	97.1	171	<10.0	171	976
T.T. 2 @ 4'	11/8/2022	4	Excavated	<0.050	0.520	34.6	113	148	<10.0	148	48.0
T.T. 2 @ 6'	11/8/2022	6	Excavated	<0.500	43.5	646	310	956	<10.0	956	64.0
T.T. 2 @ 8'	11/8/2022	8	Excavated	0.118	24.7	388	257	645	<10.0	645	32.0
T.T. 2 @ 10'	11/8/2022	10	Deferred	1.68	144	1,490	529	2,020	<10.0	2,020	32.0
T.T. 2 @ 12'	11/8/2022	12	Deferred	4.77	125	3,080	3,830	6,910	395	7,310	<16.0
T.T. 2 @ 14'	12/6/2022	14	In-Situ	<0.050	10.7	305	397	702	19.0	721	-
T.T. 2 @ 16'	12/6/2022	16	In-Situ	<0.050	0.762	25.6	115	141	<10.0	141	-
Confirmation Samples											
FL 1 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	49.4	49.4	17.8	67.2	816
FL 2 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	107	107	45.9	153	816
FL 3 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	62.1	62.1	21.3	83.4	1,150
FL 4 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	31.9	31.9	<10.0	31.9	1,010
FL 5 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	32.3	32.3	<10.0	32.3	1,300
FL 6 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	27.8	27.8	<10.0	27.8	576
FL 7 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	87.9	87.9	17.7	106	512
FL 8 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	133	133	32.7	166	512
FL 9 @ 8'	1/3/2023	8	In-Situ	<0.050	<0.300	<10.0	138	138	21.9	160	496
FL 10 @ 2'	1/3/2023	2	In-Situ	<0.050	<0.300	<10.0	116	116	11.6	128	624
FL 11 @ 1'	1/5/2023	1	In-Situ	<0.050	<0.300	<10.0	45.9	45.9	21.4	67.3	144
FL 12 @ 1'	1/5/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 13 @ 1'	1/5/2023	1	In-Situ	<0.050	<0.300	<10.0	12.4	12.4	<10.0	12.4	128
FL 14 @ 1'	1/5/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
EW 1	1/3/2023	0-8	In-Situ	<0.050	<0.300	<10.0	37.0	37.0	<10.0	37.0	608
EW 2	1/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	43.8	43.8	<10.0	43.8	1,070
EW 3	1/5/2023	0-1	In-Situ	<0.050	<0.300	<10.0	52.3	52.3	22.2	74.5	240
NW 1	1/3/2023	0-8	In-Situ	<0.050	<0.300	<10.0	40.7	40.7	14.1	54.8	528
NW 2	1/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	67.2	67.2	16.4	83.6	1,010
NW 3	1/5/2023	0-1	In-Situ	<0.050	<0.300	<10.0	69.2	69.2	27.2	96.4	272
NW 4	1/5/2023	0-8	In-Situ	<0.050	<0.300	<10.0	48.5	48.5	17.6	66.1	320
SW 1	1/3/2023	0-8	In-Situ	<0.050	<0.300	<10.0	38.7	38.7	<10.0	38.7	720

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

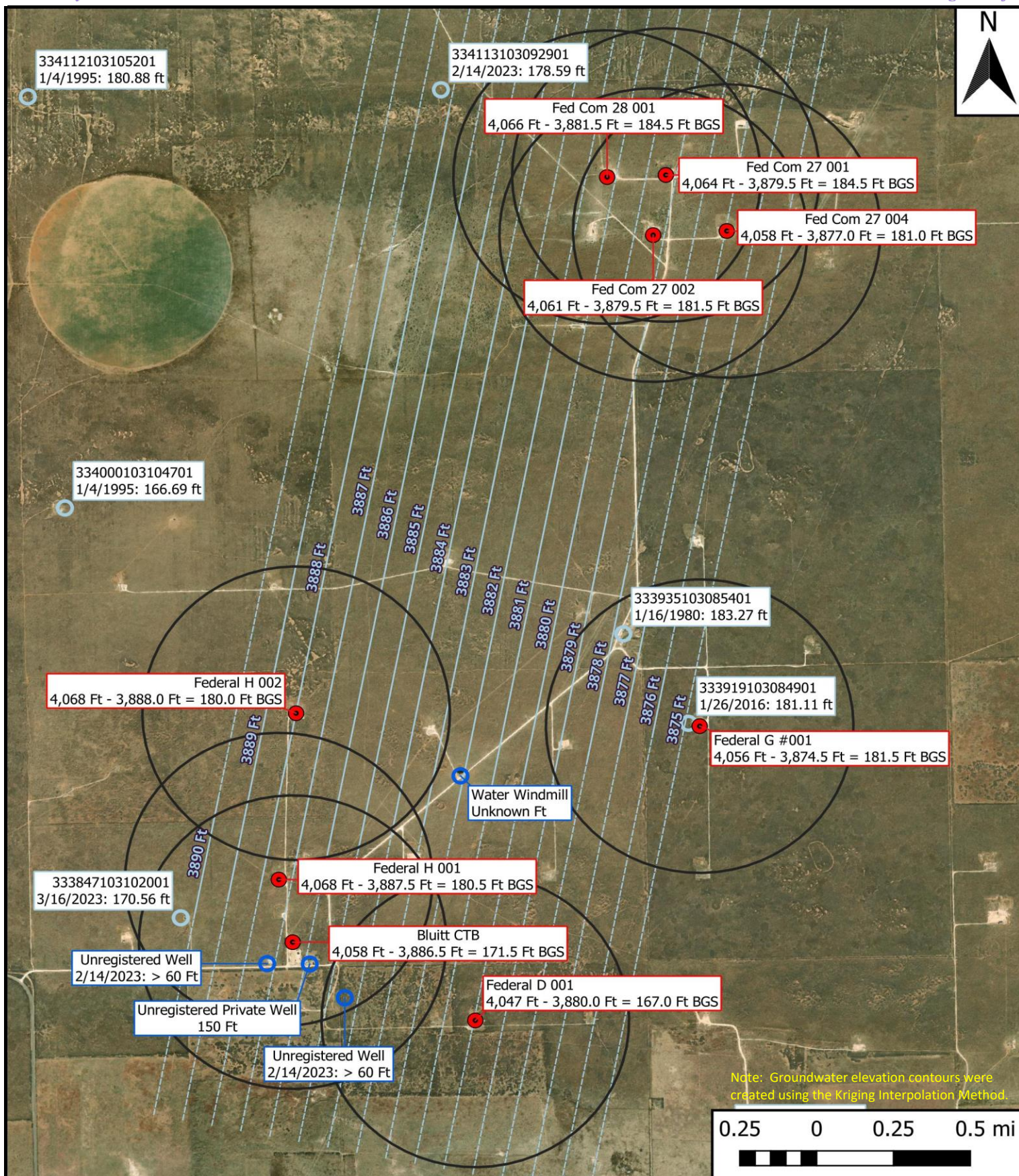
Table 1 Concentrations of BTEX, TPH, and Chloride in Soil H.L. Brown Operating, LLC Bluitt CTB NMOCD Ref. #: nAPP2227228730											
NMOCD Closure Criteria				10	50	-	-	1,000	-	2,500	20,000
NMOCD Reclamation Standard				10	50	-	-	-	-	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW 2	1/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	197	197	104	301	448
SW 3	1/5/2023	0-8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 4	1/5/2023	0-1	In-Situ	<0.050	<0.300	<10.0	140	140	66.2	206	64.0
WW 1	1/3/2023	0-8	In-Situ	<0.050	<0.300	<10.0	30.9	30.9	<10.0	30.9	880
WW 2	1/3/2023	0-2	In-Situ	<0.050	<0.300	<10.0	107	107	49.6	157	432
WW 3	1/5/2023	0-8	In-Situ	<0.050	<0.300	<10.0	81.4	81.4	37.5	119	288
WW 4	1/5/2023	0-8	In-Situ	<0.050	<0.300	<10.0	169	169	61.5	231	336
Deferral Characterization Samples											
DC 1	1/6/2023	10-12	Deferred	<0.050	12.2	574	4,270	4,840	443	5,290	1,390
DC 2	1/6/2023	10-12	Deferred	<0.200	41.5	1,230	2,730	3,960	259	4,220	176

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

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

Appendix A

Depth to Groundwater Information



- Site Location
- Half Mile Radius
- Well - USGS
- Well - Other
- Groundwater Contours (Ft MSL)
- Extended Groundwater Contours

HL Brown Sites
 Inferred Depth to Groundwater Map
 H.L. Brown Operating, LLC
 Map GPS: 33.66350422, -103.15426221
 Roosevelt County, NM



Drafted: mag
 Checked: bja Date: 3/17/23



Ground Water Sampling Log

Well ID: Unregistered Well

Date: 2/14/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned well SE of House Total Depth^a (ft bmp): N/A

Type of Well: Monitor Recovery Potable Irrigation Other _____

Casing Material: PVC (Steel) Other _____ Diameter: 2" 4" 6" Other 10" Screen (ft bmp): Stow Pipe

Condition of Seal: Good Poor Needs Repair Other _____ Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 Time _____ Measure Point Description Top of casing, .75 ft ass

Comments: Open @ 60 Hz, did not go deeper, fear of equipment damage

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = _____ gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: submersible peristaltic bailer other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every $\frac{1}{2}$ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other_____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria: • SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$

- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)

- Temp: $\pm 0.2^{\circ}\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, length (ft)? _____



Ground Water Sampling Log

Well ID: CN145123456789

Date: 2/14/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned well Total Depth^a (ft bmp): N/A

Type of Well: Monitor Recovery Potable Irrigation Other Abandoned Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stove Pipe

Condition of Seal: Good Poor Needs Repair Other _____ Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 ft Time _____ Measure Point Description Top of Casina, 1.5 ft ass

Comments: Open @ 60 ft, did not go deeper, fear of losing equipment / damage

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: submersible peristaltic bailer other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other_____ Sample Time_____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)?



Ground Water Sampling Log

Well ID: 333647103102001

Date: 2/14/2016

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned well Total Depth^a (ft bmp): NA

Type of Well: Monitor Recovery Potable Irrigation Other _____

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stone Pipe

Condition of Seal: Good Poor Needs Repair Other _____ Well Locked? Y N

Gauging Data

Static Water Level^b (ft bmp) 760 Time Measure Point Description

Comments: Did not go deeper, fear of equipment damage

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: ☒ submersible ☐ peristaltic ☐ bailer ☐ other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: ☐ submersible ☐ peristaltic ☐ bailer ☐ other _____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria:

- SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$
- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)
- Temp: $\pm 0.2^\circ\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)? _____



Ground Water Sampling Log

Well ID: 334113103092901

Date: 2/14/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: NW of Fed Camp Total Depth^a (ft bmp): N/A

Type of Well: Monitor ☒ Recovery ☐ Potable ☐ Irrigation ☐ Other Abandoned / Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): _____

Condition of Seal: ☐ Good ☐ Poor ☐ Needs Repair ☐ Other Well Locked? ☐ Y ☐ N

Gauging Data

Static Water Level^b (ft bmp) 178.59 Time _____ Measure Point Description Top of Casings

Comments:

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = gal

Purging Volume (3 x Well Vol) = _____ gal

Well Purging Method: ☐ submersible ☐ peristaltic ☐ bailer ☐ other _____ Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other Sample Time

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

- | | |
|-----------|---|
| Stability | • pH: ± 0.1 |
| Criteria: | <ul style="list-style-type: none"> • SC: $\pm 5\%$, for SC $\leq 100 \mu\text{S/cm}$; $\pm 3\%$, for SC $> 100 \mu\text{S/cm}$ • DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater) • Temp: $\pm 0.2^\circ\text{C}$ (USG5 for thermistor) |

Sample tubing left in well? Y N
(circle yes or no)

If so, length (ft)? _____



Ground Water Sampling Log

Well ID: 333847103102001

Date: 3/16/2023

Site Description/Construction Detail

Project: HL Browns Personnel: _____

Well Description/Location: Abandoned Well Total Depth^a (ft bmp): N/A

Type of Well: Monitor ☐ Recovery ☐ Potable ☐ Irrigation ☐ Other ☒ Abandoned Well, Livestock

Casing Material: PVC Steel Other _____ Diameter: 2" 4" 6" Other _____ Screen (ft bmp): Stone Pipe

Condition of Seal: Good Poor Needs Repair Other N/A Well Locked? Y (N)

Gauging Data

Static Water Level^b (ft bmp) 176.56 Time _____ Measure Point Description Top of casing ~ 2 ft sqs

Comments:

Well Purge Data

Volume Factors ^c					
Dia (in.)	2"	3"	4"	5"	6"
Gal/ft	0.163	0.367	0.653	1.020	1.469

Well Volume ((a-b) x c) = _____ gal

Purging Volume (3 x Well Vol) = gal

Well Purging Method: submersible peristaltic bailer other Depth pump set (ft bmp) _____

Water Quality Indicator Parameters

[illegible]

Recording Interval: Traditional volume purge - every ½ well volume; Low flow - every 3-5 min, drawdown should not exceed 0.33ft during purging.

Total Gallons Purged _____

Approximate Discharge Rate (gpm): _____

Sample Data

Sample Collection Method: submersible peristaltic bailer other _____ Sample Time _____

Comments *Project name for sample labels (if abbr): _____ Duplicate Collected? Y N

Stability • pH: ± 0.1

Criteria: • SC: $\pm 5\%$, for $SC \leq 100 \mu S/cm$; $\pm 3\%$, for $SC > 100 \mu S/cm$

- DO: $\pm 10\%$ or 0.3 mg/L (whichever is greater)

- Temp: $\pm 0.2^{\circ}\text{C}$ (USGS for thermistor)

Sample tubing left in well? Y N
(circle yes or no)

If so, **length** (ft)? _____



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 669756.36

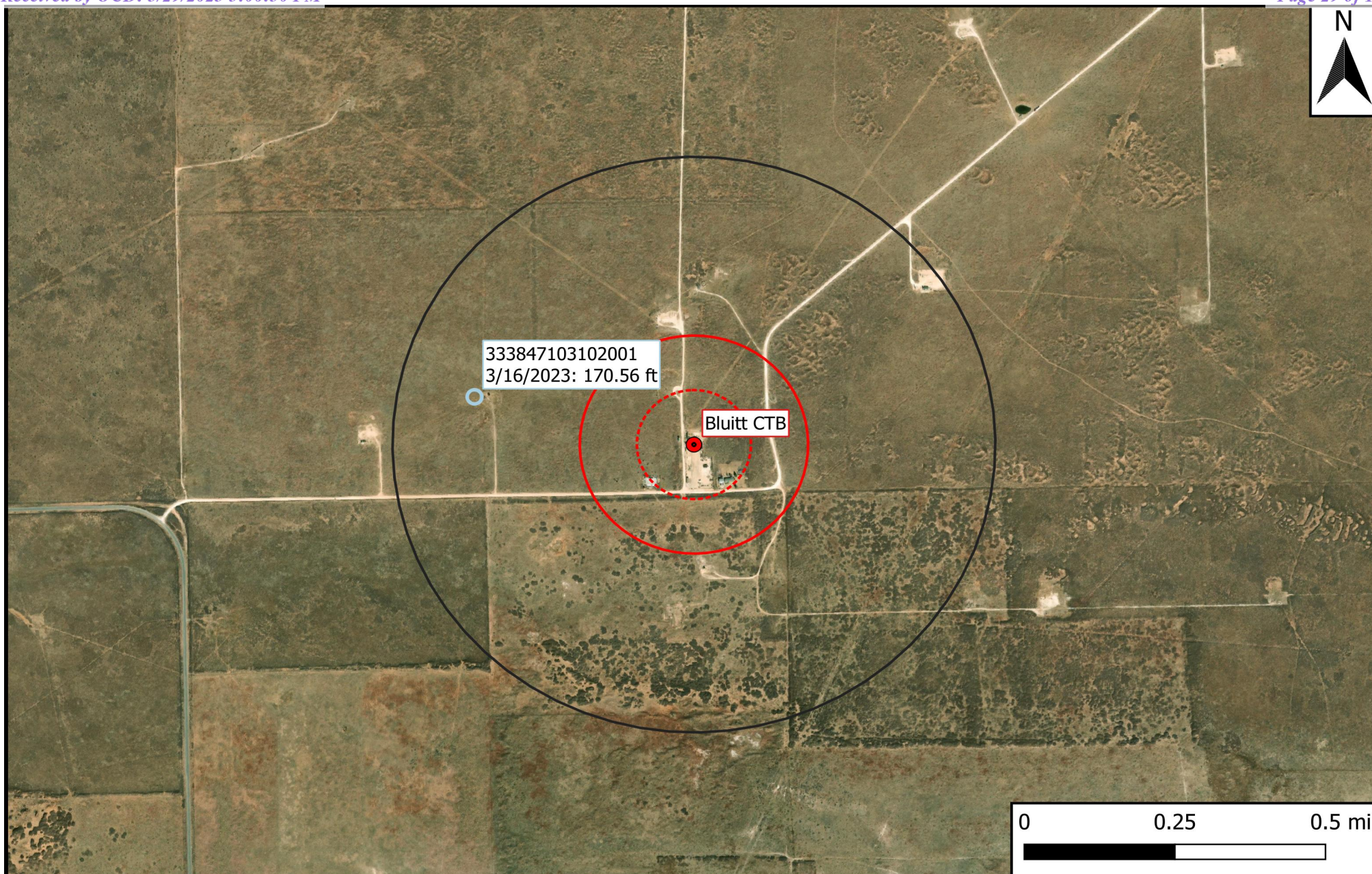
Northing (Y): 3724227.39

Radius: 1610

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.

7/19/22 9:09 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

**Legend**

- Site Location
- Well - USGS
- ⋯ 500 Ft Radius
- ⬜ 1000 Ft Radius
- ⬜ 0.5 Mi Radius

Figure 4

USGS Well Proximity Map
H.L. Brown Operating, LLC
Bluitt CTB
GPS: 33.644362, -103.169487
Roosevelt County



Drafted: mag

Checked: bja

Date:

1/25/23



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

[Click for News Bulletins](#)

Groundwater levels for the Nation

! Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 333847103102001

Minimum number of levels = 1

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

USGS 333847103102001 08S.37E.05.43131

Available data for this site

Groundwater: Field measurements

GO

Roosevelt County, New Mexico

Hydrologic Unit Code 12080001

Latitude 33°38'44", Longitude 103°10'31" NAD27

Land-surface elevation 4,054.00 feet above NGVD29

The depth of the well is 219 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Cretaceous System (210CRCS) local aquifer.

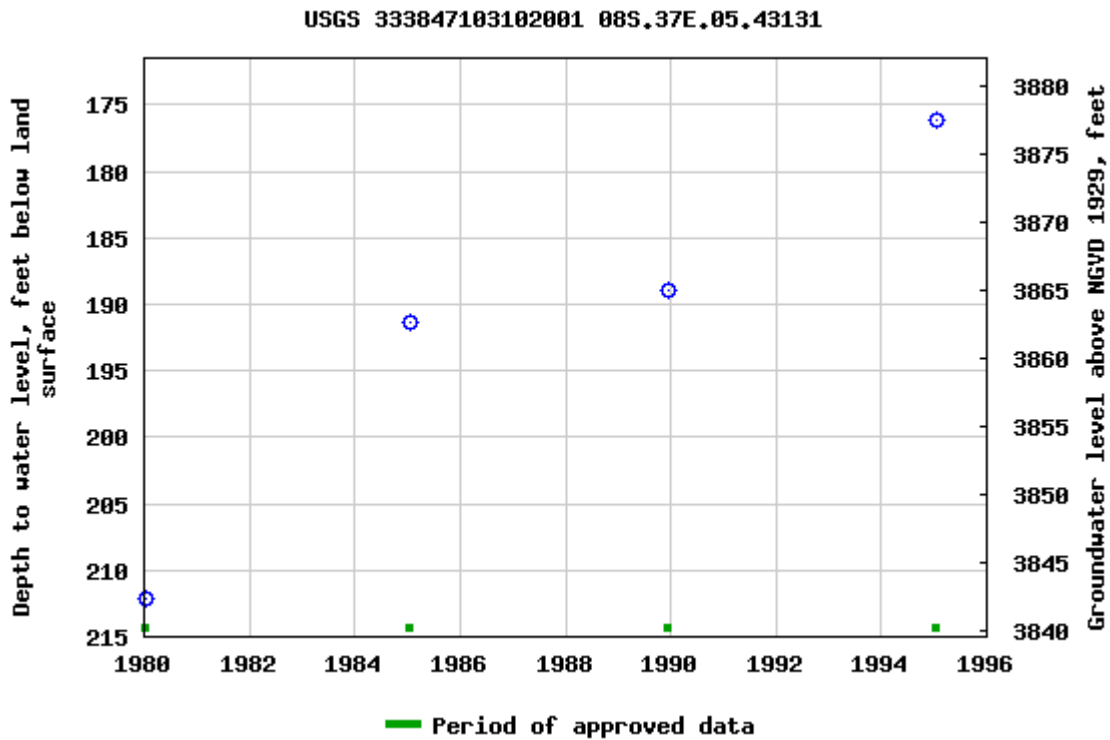
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2022-07-19 11:05:53 EDT

0.61 0.5 nadww01

Appendix B

Field Data



Initial Release Assessment Form

Project: Bluit CTB

Project Number:

16208

Latitude:

33.644362

Clean Up Level:

Date:

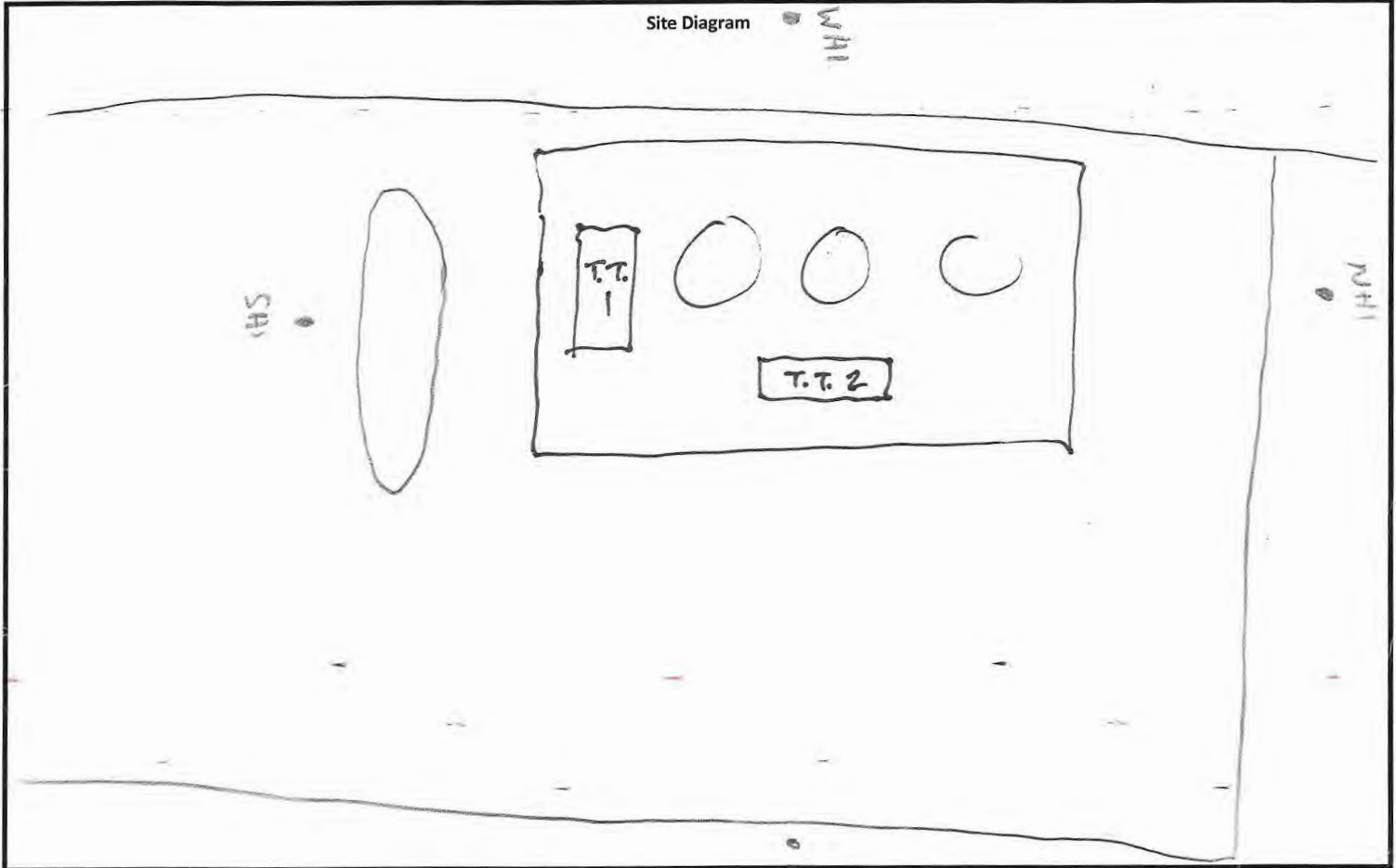
11/8/22

20,000 mg/kg Cl-, 2,500 mg/kg TPH

Longitude:

-103.169487

Site Diagram



Notes:

Notes:

~Length:

~Width:

~Area:

~Depth:

Yes

No

Representative Pictures of the Affected Area including sample locations?

☐☐

Samples Field Screened and on Ice?

☐☐

Screen Data Entered on Sample Log?

☐☐

tical delineation achieved?

☐☐



Sample Log

Date: _____

Project: Bluitt CTB

Project Number: 16208 Latitude: 33.644362 Longitude: -103.169487

Sample ID	PID/Odor	Chloride Conc.	GPS
SH1@ 6'		1.2 7124	
NH1@ 6'		2.0 200	
WH1@ 6'		2.2 228	
EH1@ 6'		1.4 2124	
T.T.2@14'	Slight	—	
T.T.2@16'	Slight	—	
FL1@8'	Slight	—	
FL2@8'	light	—	
FL3@8'	light	—	
FL4@8'	light	—	
FL5@8'	light	—	
FL6@8'	light	—	
FL7@8'	light	—	
FL8@8'	light	—	
FL9@8'	light	—	
FL10@2'	light	—	
NW1	light	—	
EW1	light	—	
SW1	light	—	
WW1	light	—	
NW2	light	—	
EW2	light	—	
SW2	light	—	
WW2	light	—	
WW3			
WW4			
NW3			
NW4			
SW3			
SW4			
EW3			
FL11@2'			
FL12@2'			
FL13@2'			
FL14@2'			

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

November 15, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUITT CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/10/22 8:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 1 @ 4' (H225313-01)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.44	1.00	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	5.01	1.00	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	11.0	1.00	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	58.3	3.00	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTX	75.8	6.00	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2660	10.0	11/10/2022	ND	193	96.3	200	3.74	QM-07
DRO >C10-C28*	2900	10.0	11/10/2022	ND	203	102	200	6.14	QM-07
EXT DRO >C28-C36	216	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 263 % 45.3-161

Surrogate: 1-Chlorooctadecane 140 % 46.3-178

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:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 1 @ 6' (H225313-02)

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	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	0.172	0.050	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	0.296	0.050	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	1.51	0.150	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTEX	2.04	0.300	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	1570	16.0	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.5	10.0	11/10/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	89.4	10.0	11/10/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

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

Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 1 @ 8' (H225313-03)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	0.275	0.050	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	0.397	0.050	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	2.16	0.150	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTEX	2.83	0.300	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 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	912	16.0	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.9	10.0	11/10/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	155	10.0	11/10/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Analytical Results For:

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 JOEL LOWRY
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 HOBBS NM, 88240
 Fax To:

Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 1 @ 10' (H225313-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.611	0.500	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	4.83	0.500	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	7.31	0.500	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	32.1	1.50	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTEX	44.8	3.00	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 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	752	16.0	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1290	10.0	11/10/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	1560	10.0	11/10/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	57.0	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 195 % 45.3-161

Surrogate: 1-Chlorooctadecane 159 % 46.3-178

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Analytical Results For:

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 1 @ 12' (H225313-05)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.086	0.050	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	0.943	0.050	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	2.42	0.050	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	10.6	0.150	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTEX	14.1	0.300	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 183 % 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	976	16.0	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	73.6	10.0	11/10/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	97.1	10.0	11/10/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/10/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.6 % 46.3-178

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Analytical Results For:

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 4' (H225313-06)

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	11/13/2022	ND	1.99	99.4	2.00	2.90		
Toluene*	<0.050	0.050	11/13/2022	ND	2.22	111	2.00	2.08		
Ethylbenzene*	0.054	0.050	11/13/2022	ND	2.07	103	2.00	0.803		
Total Xylenes*	0.466	0.150	11/13/2022	ND	6.24	104	6.00	1.98		
Total BTX	0.520	0.300	11/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	11/10/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	34.6	10.0	11/11/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	113	10.0	11/11/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/11/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 6' (H225313-07)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/13/2022	ND	1.99	99.4	2.00	2.90	
Toluene*	2.29	0.500	11/13/2022	ND	2.22	111	2.00	2.08	GC-NC1
Ethylbenzene*	4.88	0.500	11/13/2022	ND	2.07	103	2.00	0.803	
Total Xylenes*	36.3	1.50	11/13/2022	ND	6.24	104	6.00	1.98	
Total BTX	43.5	3.00	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 169 % 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	11/10/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	646	10.0	11/11/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	310	10.0	11/11/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/11/2022	ND					

Surrogate: 1-Chlorooctane 131 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 8' (H225313-08)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.118	0.100	11/14/2022	ND	2.01	101	2.00	6.63	QM-07
Toluene*	1.24	0.100	11/14/2022	ND	2.11	105	2.00	5.27	GC-NC1, QM-07
Ethylbenzene*	2.54	0.100	11/14/2022	ND	2.01	101	2.00	4.22	
Total Xylenes*	20.8	0.300	11/14/2022	ND	6.06	101	6.00	3.01	QM-07
Total BTEX	24.7	0.600	11/14/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 237 % 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	32.0	16.0	11/11/2022	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*	388	10.0	11/11/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	257	10.0	11/11/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/11/2022	ND					

Surrogate: 1-Chlorooctane 124 % 45.3-161

Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 10' (H225313-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.68	1.00	11/13/2022	ND	2.01	101	2.00	6.63	
Toluene*	8.89	1.00	11/13/2022	ND	2.11	105	2.00	5.27	GC-NC1
Ethylbenzene*	15.1	1.00	11/13/2022	ND	2.01	101	2.00	4.22	
Total Xylenes*	118	3.00	11/13/2022	ND	6.06	101	6.00	3.01	
Total BTX	144	6.00	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	32.0	16.0	11/11/2022	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*	1490	10.0	11/11/2022	ND	193	96.3	200	3.74	
DRO >C10-C28*	529	10.0	11/11/2022	ND	203	102	200	6.14	
EXT DRO >C28-C36	<10.0	10.0	11/11/2022	ND					

Surrogate: 1-Chlorooctane 128 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Received:	11/10/2022	Sampling Date:	11/08/2022
Reported:	11/15/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 12' (H225313-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.77	2.00	11/13/2022	ND	2.01	101	2.00	6.63	
Toluene*	6.06	2.00	11/13/2022	ND	2.11	105	2.00	5.27	GC-NC1
Ethylbenzene*	12.8	2.00	11/13/2022	ND	2.01	101	2.00	4.22	
Total Xylenes*	101	6.00	11/13/2022	ND	6.06	101	6.00	3.01	
Total BTX	125	12.0	11/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	11/11/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3080	10.0	11/11/2022	ND	193	96.3	200	3.74		
DRO >C10-C28*	3830	10.0	11/11/2022	ND	203	102	200	6.14		
EXT DRO >C28-C36	395	10.0	11/11/2022	ND						

Surrogate: 1-Chlorooctane 361 % 45.3-161

Surrogate: 1-Chlorooctadecane 264 % 46.3-178

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

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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

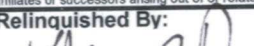


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1/1

Page 13 of 13

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Relinquished By: 		Date: 11/10/22	Time: 8:57	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____
Relinquished By: _____		Date: _____	Time: _____	Received By: _____	REMARKS: PM@ctechenv.com
Delivered By: (Circle One)	Observed Temp. °C -4.1°C	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials) 	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/>
Sampler - UPS - Bus - Other: _____	Corrected Temp. °C -4.7°C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID #113 Correction Factor -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No
					Observed Temp. °C _____
					Corrected Temp. °C _____

~~FORM-006 R 3.3 07/16/22~~

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 13, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUITT CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/06/22 15:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NH 1 @ 6' (H225727-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.09	104	2.00	1.32	
Toluene*	<0.050	0.050	12/09/2022	ND	2.10	105	2.00	0.732	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.11	106	2.00	0.255	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.40	107	6.00	0.480	
Total BTEX	<0.300	0.300	12/09/2022	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	16.0	16.0	12/09/2022	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	12/08/2022	ND	191	95.5	200	3.63	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	160	80.0	200	7.29	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.7 % 46.3-178

Cardinal Laboratories

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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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: EH 1 @ 6' (H225727-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2022	ND	2.09	104	2.00	1.32		
Toluene*	<0.050	0.050	12/10/2022	ND	2.10	105	2.00	0.732		
Ethylbenzene*	<0.050	0.050	12/10/2022	ND	2.11	106	2.00	0.255		
Total Xylenes*	<0.150	0.150	12/10/2022	ND	6.40	107	6.00	0.480		
Total BTEx	<0.300	0.300	12/10/2022	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	12/09/2022	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	12/08/2022	ND	179	89.4	200	2.14	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	189	94.7	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.4 % 46.3-178

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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: SH 1 @ 6' (H225727-03)

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	12/10/2022	ND	2.09	104	2.00	1.32	
Toluene*	<0.050	0.050	12/10/2022	ND	2.10	105	2.00	0.732	
Ethylbenzene*	<0.050	0.050	12/10/2022	ND	2.11	106	2.00	0.255	
Total Xylenes*	<0.150	0.150	12/10/2022	ND	6.40	107	6.00	0.480	
Total BTEX	<0.300	0.300	12/10/2022	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	16.0	16.0	12/09/2022	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	12/08/2022	ND	179	89.4	200	2.14	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	189	94.7	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.6 % 46.3-178

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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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WH 1 @ 6' (H225727-04)

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	12/10/2022	ND	2.09	104	2.00	1.32	
Toluene*	<0.050	0.050	12/10/2022	ND	2.10	105	2.00	0.732	
Ethylbenzene*	<0.050	0.050	12/10/2022	ND	2.11	106	2.00	0.255	
Total Xylenes*	<0.150	0.150	12/10/2022	ND	6.40	107	6.00	0.480	
Total BTX	<0.300	0.300	12/10/2022	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	16.0	16.0	12/09/2022	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	12/08/2022	ND	179	89.4	200	2.14	
DRO >C10-C28*	<10.0	10.0	12/08/2022	ND	189	94.7	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 76.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.4 % 46.3-178

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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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 14' (H225727-05)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2022	ND	2.09	104	2.00	1.32	
Toluene*	0.832	0.050	12/10/2022	ND	2.10	105	2.00	0.732	
Ethylbenzene*	1.17	0.050	12/10/2022	ND	2.11	106	2.00	0.255	
Total Xylenes*	8.66	0.150	12/10/2022	ND	6.40	107	6.00	0.480	
Total BTX	10.7	0.300	12/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	305	10.0	12/08/2022	ND	179	89.4	200	2.14	
DRO >C10-C28*	397	10.0	12/08/2022	ND	189	94.7	200	2.63	
EXT DRO >C28-C36	19.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 73.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 74.0 % 46.3-178

Cardinal Laboratories

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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:	12/06/2022	Sampling Date:	12/06/2022
Reported:	12/13/2022	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	** (See Notes)
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: T.T. 2 @ 16' (H225727-06)

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	12/10/2022	ND	2.09	104	2.00	1.32	
Toluene*	0.111	0.050	12/10/2022	ND	2.10	105	2.00	0.732	
Ethylbenzene*	0.055	0.050	12/10/2022	ND	2.11	106	2.00	0.255	
Total Xylenes*	0.596	0.150	12/10/2022	ND	6.40	107	6.00	0.480	
Total BTX	0.762	0.300	12/10/2022	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	25.6	10.0	12/08/2022	ND	179	89.4	200	2.14	
DRO >C10-C28*	115	10.0	12/08/2022	ND	189	94.7	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	12/08/2022	ND					

Surrogate: 1-Chlorooctane 65.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.5 % 46.3-178

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Page 9 of 9

[illegible]



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

January 09, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUITT CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/05/23 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WW 3 (H230062-01)

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	01/08/2023	ND	2.03	102	2.00	2.66	
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54	
Total BTEX	<0.300	0.300	01/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/06/2023	ND	432	108	400	3.64	

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	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	81.4	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	37.5	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WW 4 (H230062-02)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	169	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	61.5	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NW 3 (H230062-03)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	69.2	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	27.2	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NW 4 (H230062-04)

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	01/08/2023	ND	2.03	102	2.00	2.66	
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54	
Total BTEX	<0.300	0.300	01/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/06/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	48.5	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	17.6	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: SW 3 (H230062-05)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: SW 4 (H230062-06)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	140	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	66.2	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: EW 3 (H230062-07)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	52.3	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	22.2	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 11 @ 1' (H230062-08)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	45.9	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	21.4	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 12 @ 1' (H230062-09)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 13 @ 1' (H230062-10)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	12.4	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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:	01/05/2023	Sampling Date:	01/05/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 14 @ 1' (H230062-11)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

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	01/06/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	<10.0	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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.
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".

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

<p>Company Name: Etech Environmental & Safety Solutions, Inc.</p> <p>Project Manager: Joe Lowry</p> <p>Address: 2617 W Marland</p> <p>City: Hobbs</p> <p>Phone #: (575) 264-9884</p> <p>Project #: 16208</p> <p>Project Name: Bluff CTB</p> <p>Project Location: Rural Roosevelt co., NM</p> <p>Sampler Name: Miguel Ramirez</p>		<p style="text-align: right;">1/2</p> <p style="text-align: center;">BILL TO</p> <p>P.O. #:</p> <p>Company: H.L. Brown</p> <p>Attn:</p> <p>Address:</p> <p>City:</p> <p>State: Zip:</p> <p>Phone #:</p> <p>Fax #:</p>																																																																																																																																																																																																				
<p>FOR LAB USE ONLY</p>		<p style="text-align: center;">ANALYSIS REQUEST</p>																																																																																																																																																																																																				
<p>Lab I.D.</p> <p>H230012</p>	<p>Sample I.D.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="7">MATRIX</th> <th rowspan="2">PRESERV.</th> <th rowspan="2">SAMPLING</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> <th rowspan="2">Chloride</th> <th rowspan="2">TPH (8015M)</th> <th rowspan="2">BTEX (8021B)</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> </tr> </table>	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>WW3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>2</td><td>WW4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>3</td><td>NW3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>4</td><td>NW4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>5</td><td>SW3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>6</td><td>SW4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>7</td><td>EW3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>8</td><td>FL11@1'</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>9</td><td>FL12@1'</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>10</td><td>FL13@1'</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	1	WW3																2	WW4																3	NW3																4	NW4																5	SW3																6	SW4																7	EW3																8	FL11@1'																9	FL12@1'																10	FL13@1'															
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<p>Relinquished By:</p> <p><i>[Signature]</i></p> <p>Date: 1-5-23</p> <p>Time: 1348</p>		<p>Received By:</p> <p><i>[Signature]</i></p> <p>Date:</p> <p>Time:</p>																																																																																																																																																																																																				
<p>Delivered By: (Circle One)</p> <p>Sampler - UPS - Bus - Other: 4.9c / 4.3c</p>		<p>Sample Condition</p> <p>Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No <input type="checkbox"/> No</p>																																																																																																																																																																																																				
<p>FORM-006</p> <p>Revision 1.0</p>		<p>CHECKED BY:</p> <p><i>[Signature]</i></p>																																																																																																																																																																																																				
<p>REMARKS:</p> <p>Brush added to Cloud</p> <p>Please email results and copy of CoC to pm@etechenv.com.</p> <p>TPH only. 1-6-23</p> <p>@1322</p>																																																																																																																																																																																																						



ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.

Project Manager: Joel Lowry

Address: 2617 W Marland

City: Hobbs

State: NM Zip: 88240

Phone #: (575) 264-9884

Fax #: ✓

Project #: 16208

Project Owner: H.L. Brown

Project Name: Bluff CJB

Project Location: Rural Roosevelt Co., NM

Sampler Name: Miguel Ramirez

BILL TO

P.O. #:

Company H.L. Brown

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(GRAB OR (C)OMP.

CONTAINERS

MATRIX

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

PRESERV.

SAMPLING

DATE

TIME

ACID/BASE:

ICE / COOL

OTHER:

Chloride

TPH (8015M)

BTEX (8021B)

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Relinquished By:

Date: 1-5-23

Time: 1348

Received By:

Received By:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.9c / 4.3c

Sample Condition

Cool Intact

☒ Yes ☒ Yes

☐ No ☐ No

CHECKED BY:

(Initials)

✓

Phone Result:

☐ Yes ☐ No

Add'l Phone #:

Fax Result:

☐ Yes ☐ No

Add'l Fax #:

REMARKS:

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

Brush added to CL & TPH only

T.O. 1-6-23
@1322

FORM-006

Revision 1.0

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



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

January 09, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUITT CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/05/23 13:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 1 @ 8' (H230061-01)

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	01/06/2023	ND	1.95	97.7	2.00	10.0	
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06	
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27	
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71	
Total BTX	<0.300	0.300	01/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	49.4	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	17.8	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 2 @ 8' (H230061-02)

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	01/06/2023	ND	1.95	97.7	2.00	10.0		
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06		
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27		
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71		
Total BTEX	<0.300	0.300	01/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	107	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	45.9	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 3 @ 8' (H230061-03)

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	01/06/2023	ND	1.95	97.7	2.00	10.0		
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06		
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27		
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71		
Total BTEx	<0.300	0.300	01/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1150	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	62.1	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	21.3	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 4 @ 8' (H230061-04)

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	01/06/2023	ND	1.95	97.7	2.00	10.0	
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06	
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27	
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71	
Total BTX	<0.300	0.300	01/06/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	31.9	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 5 @ 8' (H230061-05)

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	01/06/2023	ND	1.95	97.7	2.00	10.0		
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06		
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27		
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71		
Total BTX	<0.300	0.300	01/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	32.3	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

Etech Environmental & Safety Solutions
 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
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Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 6 @ 8' (H230061-06)

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	01/06/2023	ND	1.95	97.7	2.00	10.0		
Toluene*	<0.050	0.050	01/06/2023	ND	2.04	102	2.00	7.06		
Ethylbenzene*	<0.050	0.050	01/06/2023	ND	2.02	101	2.00	6.27		
Total Xylenes*	<0.150	0.150	01/06/2023	ND	6.12	102	6.00	5.71		
Total BTEX	<0.300	0.300	01/06/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	27.8	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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 JOEL LOWRY
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 7 @ 8' (H230061-07)

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	01/07/2023	ND	2.06	103	2.00	2.83		
Toluene*	<0.050	0.050	01/07/2023	ND	2.10	105	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/07/2023	ND	2.11	106	2.00	4.39		
Total Xylenes*	<0.150	0.150	01/07/2023	ND	6.44	107	6.00	5.66		
Total BTEx	<0.300	0.300	01/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	87.9	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	17.7	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 8 @ 8' (H230061-08)

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	01/08/2023	ND	2.06	103	2.00	2.83		
Toluene*	<0.050	0.050	01/08/2023	ND	2.10	105	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.11	106	2.00	4.39		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.44	107	6.00	5.66		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	133	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	32.7	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 9 @ 8' (H230061-09)

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	01/08/2023	ND	2.06	103	2.00	2.83		
Toluene*	<0.050	0.050	01/08/2023	ND	2.10	105	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.11	106	2.00	4.39		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.44	107	6.00	5.66		
Total BTEx	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/06/2023	ND	432	108	400	3.64	

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	01/05/2023	ND	205	102	200	1.23	
DRO >C10-C28*	138	10.0	01/05/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	21.9	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

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 JOEL LOWRY
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 HOBBS NM, 88240
 Fax To:

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: FL 10 @ 2' (H230061-10)

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	01/08/2023	ND	2.06	103	2.00	2.83		
Toluene*	<0.050	0.050	01/08/2023	ND	2.10	105	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.11	106	2.00	4.39		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.44	107	6.00	5.66		
Total BTEx	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	205	102	200	1.23	
DRO >C10-C28*	116	10.0	01/06/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	11.6	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

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

Received:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NW 1 (H230061-11)

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	01/08/2023	ND	2.06	103	2.00	2.83		
Toluene*	<0.050	0.050	01/08/2023	ND	2.10	105	2.00	3.64		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.11	106	2.00	4.39		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.44	107	6.00	5.66		
Total BTEx	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	205	102	200	1.23	
DRO >C10-C28*	40.7	10.0	01/06/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	14.1	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: NW 2 (H230061-12)

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	01/08/2023	ND	2.03	102	2.00	2.66	
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14	
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38	
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54	
Total BTEX	<0.300	0.300	01/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	205	102	200	1.23	
DRO >C10-C28*	67.2	10.0	01/06/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	16.4	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: EW 1 (H230061-13)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

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	01/06/2023	ND	432	108	400	3.64	

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	01/06/2023	ND	205	102	200	1.23	
DRO >C10-C28*	37.0	10.0	01/06/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: EW 2 (H230061-14)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1070	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	205	102	200	1.23	
DRO >C10-C28*	43.8	10.0	01/06/2023	ND	200	100	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: SW 1 (H230061-15)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/05/2023	ND	227	113	200	4.22	QR-03
DRO >C10-C28*	38.7	10.0	01/05/2023	ND	203	102	200	2.26	QR-03
EXT DRO >C28-C36	<10.0	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: SW 2 (H230061-16)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	01/06/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/05/2023	ND	227	113	200	4.22	
DRO >C10-C28*	197	10.0	01/05/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	104	10.0	01/05/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 154 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WW 1 (H230061-17)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/06/2023	ND	432	108	400	3.64		

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	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	30.9	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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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:	01/05/2023	Sampling Date:	01/03/2023
Reported:	01/09/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Tamara Oldaker
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WW 2 (H230061-18)

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	01/08/2023	ND	2.03	102	2.00	2.66		
Toluene*	<0.050	0.050	01/08/2023	ND	2.05	102	2.00	3.14		
Ethylbenzene*	<0.050	0.050	01/08/2023	ND	2.03	101	2.00	2.38		
Total Xylenes*	<0.150	0.150	01/08/2023	ND	6.11	102	6.00	2.54		
Total BTEX	<0.300	0.300	01/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/06/2023	ND	432	108	400	3.64	

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	01/06/2023	ND	227	113	200	4.22	
DRO >C10-C28*	107	10.0	01/06/2023	ND	203	102	200	2.26	
EXT DRO >C28-C36	49.6	10.0	01/06/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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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.
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".

Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 21 of 22

[illegible]



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Page 22 of 22

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: <i>Joel Lowry</i>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																					
Address: 2617 W Marland				Company: <i>H.L. Brown</i>																									
City: Hobbs		State: NM		Zip: 88240		Attn:																							
Phone #: (575) 264-9884		Fax #: <input checked="" type="checkbox"/>		Address:		City:																							
Project #: <i>16208</i>		Project Owner: <i>H.L. Brown</i>		State:		Zip:																							
Project Name: <i>Blvd CTB</i>		Project Location: <i>Rural Roosevelt Co., NM</i>		Phone #:		Fax #:																							
Sampler Name: <i>Miguel Ramirez</i>																													
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING																	
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
<i>H230061</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>11 NW1</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>12 NW2</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>13 EW1</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>14 EW2</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>15 SW1</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>16 SW2</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>17 WW1</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<i>18 WW2</i>				<i>C</i>		<i>1</i>						<i>X</i>								<i>X</i>						<i>1/3/23</i>			
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																													
Relinquished By: <i>[Signature]</i>				Date: <i>1-5-23</i>				Received By: <i>[Signature]</i>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <i>1348</i>								Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:				Received By:				REMARKS: <i>Push added to CL & TPH only</i> <i>Please email results and copy of CoC to pm@etechenv.com.</i> <i>on 1-6-23 @ 1322z.</i>																	
Delivered By: (Circle One)				#113				Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other: <i>4.9c/4.3c</i>								Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				<i>YO</i>																	



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

January 12, 2023

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: BLUITT CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	01/10/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: DC 1 (H230118-01)

BTX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2023	ND	2.05	102	2.00	0.982	
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.89	GC-NC
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.30	
Total Xylenes*	12.2	0.150	01/11/2023	ND	6.51	109	6.00	2.21	GC-NC1
Total BTX	12.2	0.300	01/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 398 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	574	50.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	4270	50.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	443	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 142 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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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:	01/10/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: DC 2 (H230118-02)

BTEx 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/11/2023	ND	2.05	102	2.00	0.982	
Toluene*	<0.200	0.200	01/11/2023	ND	2.11	106	2.00	1.89	GC-NC
Ethylbenzene*	<0.200	0.200	01/11/2023	ND	2.11	106	2.00	1.30	
Total Xylenes*	41.5	0.600	01/11/2023	ND	6.51	109	6.00	2.21	GC-NC1
Total BTEX	41.5	1.20	01/11/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 253 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/11/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1230	50.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	2730	50.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	259	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 229 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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:	01/10/2023	Sampling Date:	01/06/2023
Reported:	01/12/2023	Sampling Type:	Soil
Project Name:	BLUITT CTB	Sampling Condition:	Cool & Intact
Project Number:	16208	Sample Received By:	Shalyn Rodriguez
Project Location:	HL BROWN - RURAL ROOSEVELT CO., NI		

Sample ID: WH 2 (H230118-03)

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	01/11/2023	ND	2.05	102	2.00	0.982		
Toluene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.89		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.11	106	2.00	1.30		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.51	109	6.00	2.21		
Total BTEX	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

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	01/11/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/11/2023	ND	192	95.9	200	8.39	
DRO >C10-C28*	18.7	10.0	01/11/2023	ND	179	89.6	200	9.81	
EXT DRO >C28-C36	10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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".

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

Page 6 of 6

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joe Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: H.L. Brown																							
City: Hobbs		State: NM		Zip: 88240		Attn:																					
Phone #: (575) 264-9884		Fax #:		Address:		City:																					
Project #: 16208		Project Owner: H.L. Brown		State:		Zip:																					
Project Name: Blue 7 CP13		Project Location: Rural Roosevelt CO., NM		Phone #:		Fax #:																					
Sampler Name: Miguel Ramirez																											
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H230118				G1																				1/6/23			
1		DC1		↓																				X		X	
2		DC2		↓																				↓		↓	
3		WH2		↓																				↓		↓	

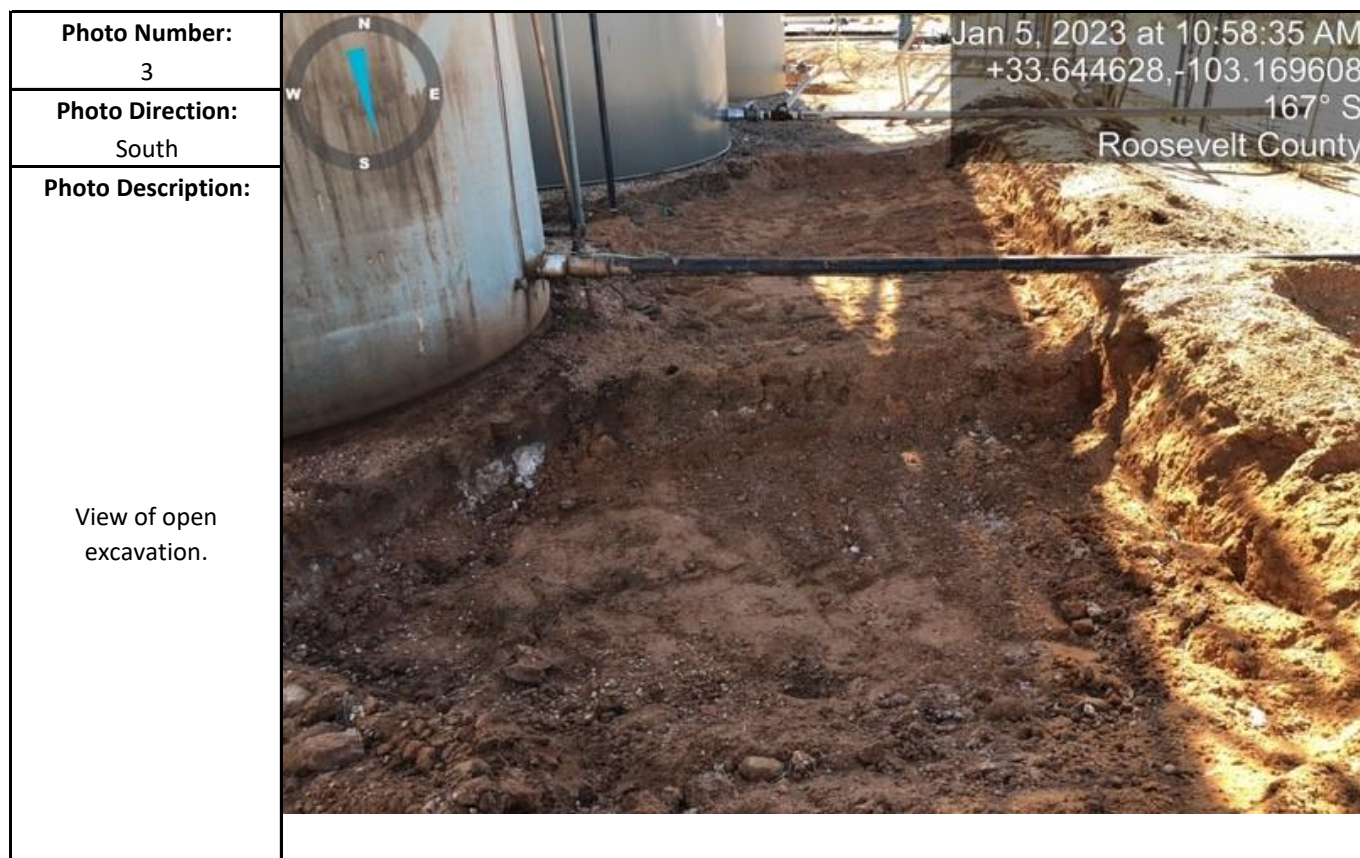
Appendix D

Photographic Log

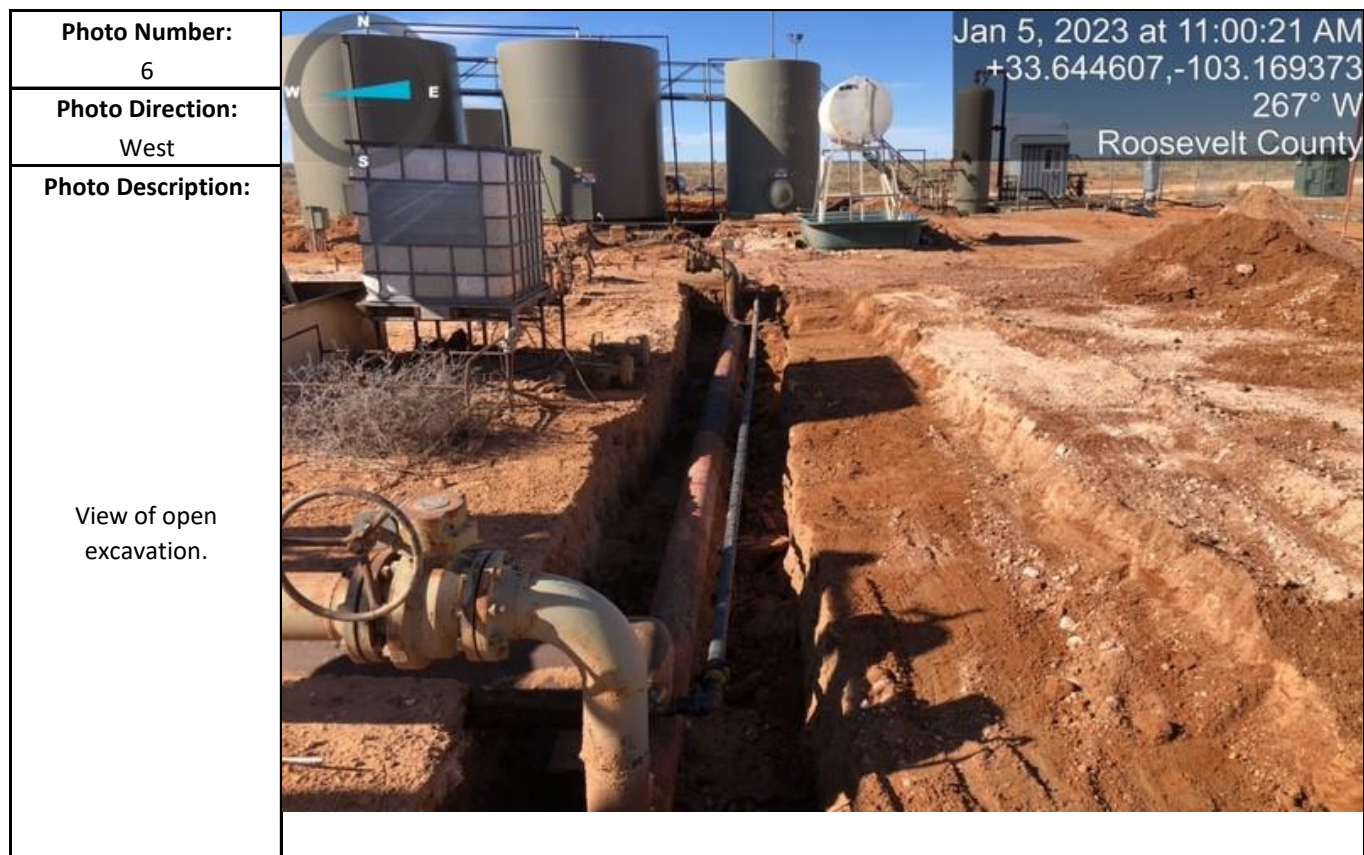
Photographic Log



Photographic Log



Photographic Log



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 201885

CONDITIONS

Operator: H L BROWN OPERATING, LLC P.O. Box 2237 Midland, TX 79702	OGRID: 213179
	Action Number: 201885
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. Going forward, please provide lat/long on wells used for dtw determination. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	5/2/2023