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Incident ID NAPP2227230643 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?	
Did this release impact groundwater or surface water?	☐ Yes 🗹 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🗹 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)?	☐ Yes 🗹 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🗹 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?	☐ Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗹 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well	ls.

Chara	cterization Report Checklist: Each of the following items must be included in the report.
Fie Da	aled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. eld data ta table of soil contaminant concentration data pth to water determination termination of water sources and significant watercourses within ½-mile of the lateral extents of the release ring or excavation logs otographs including date and GIS information pographic/Aerial maps boratory 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.

Page 4

State	of New Mexico
Oil Con	servation Division

Incident ID	nAPP2227230643
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Application ID	

public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a	the best of my knowledge and understand that pursuant to OCD rules and notifications and perform corrective actions for releases which may endanger not OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws
Printed Name: Risa Czarnikow	Title: Production Tech
Signature: Wa Ganukan	Date: 3-29-23
email: rczarnikow@helmsoil.com	Telephone: (432) 688-3727
OCD Only	
Received by:	Date:

Page 5

State of New Mexico Oil Conservation Division

Incident ID	nAPP2227230643	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following item	ns must he included in the plan
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delinea ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 1 	ne tion points
Deferral Requests Only: Each of the following items m	ust be confirmed as part of any request for deferral of remediation.
	around production equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
☑ Contamination does not cause an imminent risk to hum	nan health, the environment, or groundwater
which may endanger public health or the environment. The liability should their operations have failed to adequately in	d complete to the best of my knowledge and understand that pursuant to OCD d/or file certain release notifications and perform corrective actions for releases e acceptance of a C-141 report by the OCD does not relieve the operator of investigate and remediate contamination that pose a threat to groundwater, on, OCD acceptance of a C-141 report does not relieve the operator of or local laws and/or regulations.
Printed Name: Risa Czarnikow	Title: Production Tech
Signature: Ma Crambow	Date: 3-29-23
email: rczarnikow@helmsoil.com	Telephone: (432) 688-3727
OCD Only	
Received by:	Date:
Approved Approved with Attached Cond	
Signature: Nelson Velez	Date: 09/29/2023
OCD has accepted the groundwater dete mile radius determination.	rmination albeit it was outside the preferential 1/2

Amended Remediation Summary & Deferral Request

H.L. Brown Operating, LLC Fed Com 28 001

Roosevelt County, New Mexico Unit Letter H, Section 28, Township 7 South, Range 37 East Latitude 33.68177 North, Longitude 103.150933 West NMOCD Reference No. nAPP2227230643

Prepared By:

Etech Environmental & Safety Solutions, Inc.

3100 Plains Highway Lovington, New Mexico 88260

Zach Conder

Ben Arguijo



Midland • San Antonio • Lubbock • Lovington • Lafayette

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FIGURES

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Figure 2 - Aerial Proximity Map

Figure 3A - Site and Sample Location Map - Well Head

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

APPENDICES

Appendix A - Amended Depth to Groundwater Information

Appendix B - Field Data & Soil Profile Logs

Appendix C - Laboratory Analytical Reports

Appendix D - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of H.L. Brown Operating, LLC, has prepared this *Remediation Summary & Deferral Request* for the release site known as the Fed Com 28 001 (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source								
Latitude: 33.68177 Longitude: -103.150933								
Provided GPS are in WGS84 format.								
Site Name: Fed Com 28 001 Site Type: Tank Battery								
Date Release Discovere	d: 9/7/2022	API # (if applica	able): 30-041-20822					
Unit Letter Section Township Range County								
H 2	28 7S	37E	Roosevelt					
Surface Owner: Sta	te Federal Tribal	X Private (Nam	ne KIZER MACK LIFE ESTATE)					
	Nature an	nd Volume of R	elease					
X Crude Oil	Volume Released (bbls)	5 bbls	Volume Recovered (bbls) 0 bbls					
Produced Water	Volume Released (bbls)		Volume Recovered (bbls)					
	Is the concentration of total d (TDS) in the produced water		Yes No X N/A					
Condensate	Volume Released (bbls)		Volume Recovered (bbls)					
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)					
Other (describe)	Volume/Weight Released		Volume/Weight Recovered					
Cause of Release: Historical release foun	Cause of Release: Historical release found during site inspection.							
Initial Response								
X The source of the release has been stopped.								
X The impacted area has been secured to protect human health and the environment.								
X Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices X All free liquids and recoverable materials have been removed and managed appropriately.								
X All free liquids and	recoverable materials have been	n removed and manag	дец арргоргіатету.					

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

What is the shallowest depth to groundwater beneath the area affected by the release?	184.5 Feet
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X 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?	Yes X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X 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?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) and Fish & Wildlife Services (FWS) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted in Figures 1, 2, 4, and 5.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
	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
184.5 Feet	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 October 13, 2022, remediation activities commenced at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and a Hach Quantab® chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards, or to the extent practicable.

Upon excavating impacted soil affected above the NMOCD Closure Criteria, Etech collected twenty-five (25) confirmation soil samples (FS 1 @ 3', FS 2 @ 3', FS 3 @ 1', FL 4 @ 8', FL 5 @ 8', FL 6 @ 4', FL 7 @ 3', EW 1, EW 2, EW 3, NW 1, NW 2, NW 3 B, NW 3 C, NW 3 - DEF @ 4', NW 4, SW 1, SW 2, SW 3, SW 4, WW 1, WW 2, WW 3 D, WW 4 and WW 5 D). The collected soil samples were submitted to a certified, commercial laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in all of the submitted soil samples with the exceptions of NW 4 (1,910 mg/kg GRO+DRO), SW 3 (4,590 mg/kg TPH) and WW 4 (1,900 mg/kg GRO+DRO).

Etech advanced three (3) hand-augered soil bores at the sample locations NW 4, SW 3 and WW 4 to characterize the affected area adjacent to and beneath the above-ground crude oil storage tank requiring deferral of remediation. During the advancement of the hand-augered soil bores, a total of five (5) soil samples (NW 4 - DEF @ 6', SW 3 - DEF @ 4', SW 3 - DEF @ 6', SW 3 -DEF @ 8' and WW4 - DEF @ 4') were collected and field-screened utilizing olfactory/visual senses and/or a chloride test kit. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, soil was not affected above the NMOCD Closure Criteria beyond six (6) feet below ground surface (bgs) in the area characterized by the auger hole at NW 4, eight (8) feet bgs in the area characterized by the auger hole at SW 3 and four (4) feet bgs in the area characterized by the auger hole at WW 4.

In addition, Etech collected seven (7) horizontal delineation soil samples (NH 1 @ 1', NH 2 @ 1', EH 1 @ 1', SH 1 @ 1', SH 2 @ 1', WH 1 @ 1' and WH 2 @ 1') in an effort to further characterize the horizontal extent of the release. 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 and NMOCD Reclamation Standards in all of the submitted soil samples.

The final dimensions of the excavated areas were approximately (length by width by height in feet) 20x20x3, 10x10x1, 26x9x4, 21x8x8 and 21x7x8. During the course of remediation activities, approximately 160 cubic yards of impacted soil was excavated and transported to an NMOCD-permitted surface waste facility for disposal.

The extent of the excavated area, the area to be deferred, and the locations of the composite confirmation soil samples and auger holes are depicted in Figure 3A "Site & Sample Location Map - Wellhead" and Figure 3B "Site and Sample Location Map - Tank Battery". Soil chemistry data is summarized in Table 1. General photographs of the Site are provided in Appendix D. Laboratory analytical reports are provided in Appendix C.

5.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

6.0 DEFERRAL REQUEST

Remediation activities were conducted in accordance with applicable NMOCD regulatory guidelines. Impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards 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 and chloride are below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Remediation of TPH-impacted soil affected above the NMOCD Closure Criteria remaining in-situ in the deferral area will be completed upon decommissioning and abandonment of the tank battery 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 & Deferral Request* to the appropriate agencies and cease remediation activities at the site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & 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 reference in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of 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

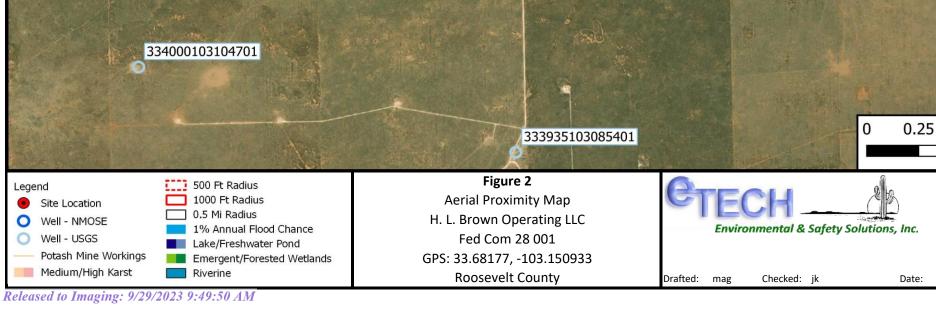
New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

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

Figure 2 Aerial Proximity Map



0.5 mi

10/11/22

Figure 3A and Figure 3B Site and Sample Location Maps



Confirmation Sample Location

Horizontal Delineation Sample Point

Excavated Area

Site and Sample Location Map - Wellhead H.L. Brown Operating, LLC Fed Com 28 001 GPS: 33.68177, -103.150933

Roosevelt County



Drafted: ZPC

Checked: JWL

Date:

1/20/23

Environmental & Safety Solutions, Inc.

Date:

1/20/23

Checked: JWL

Drafted: ZPC



Fed Com 28 001

GPS: 33.68177, -103.150933

Roosevelt County

Excavated Area

Area to be Deffered

Deferral Sample Point

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 Fed Com 28 001 NMOCD Ref. #: nAPP2227230643

NMOCD Ref. #: nAPP2227230643											
	CD Closure C			10	50	-	-	1,000	-	2,500	20,000
NMOCD	Reclamation	Standard			100	600					
				SW 846 8021B SW 846 8015M Ext.			4500 Cl				
Sample ID	Date	Depth	Soil	Benzene	BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride
_		(Feet)	Status	(mg/kg)	(mg/kg)	C ₆ -C ₁₀	C ₁₀ -C ₂₈	C ₆ -C ₂₈	C ₂₈ -C ₃₆	C ₆ -C ₃₆	(mg/kg)
						(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
WH 1 @ Surf	10/25/2022	0	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
WH 1 @ 1'	10/25/2022	1	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NW 3 - DEF @ 4'		4	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW 4 - DEF @ 6'		6	In-Situ	< 0.050	< 0.300	<10.0	769	769	69.6	839	-
SW 3 - DEF @ 4'		4	Deferred	< 0.025	< 0.150	125	8,230	8,360	868	9,220	-
SW 3 - DEF @ 6'		6	Deferred	< 0.050	< 0.300	<10.0	3,010	3,010	430	3,440	-
SW 3 DEF @ 8'		8	In-Situ	< 0.050	< 0.300	<10.0	568	568	95.9	664	-
WW 4 - DEF @ 4'	10/25/2022	4	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 1 @ 3'	10/19/2022	3	In-Situ	< 0.050	< 0.300	<10.0	332	332	120	452	976
FS 2 @ 3'	10/19/2022	3	In-Situ	< 0.050	< 0.300	<10.0	291	291	113	404	928
FS 3 @ 1'	10/19/2022	1	In-Situ	< 0.050	< 0.300	<10.0	143	143	38.5	182	160
FS 4 @ 3'	10/19/2022	3	Excavated	< 0.050	8.33	251	5,750	6,000	623	6,620	288
FL 4 @ 4'	10/25/2022	4	Excavated	< 0.025	< 0.150	<50.0	7,220	7,220	987	8,210	-
FL 4 @ 6'	11/14/2022	6	Excavated	< 0.050	< 0.300	<50.0	2,470	2,470	386	2,860	-
FL 4 @ 8'	12/1/2022	8	In-Situ	< 0.050	< 0.300	<10.0	257	257	30.3	287	-
FS 5 @ 3'	10/19/2022	3	Excavated	< 0.050	2.91	822	7,550	8,370	737	9,110	912
FL 5 @ 4'	10/25/2022	4	Excavated	< 0.025	< 0.150	<50.0	1,840	1,840	461	2,300	-
FL 5 @ 6'	11/14/2022	6	Excavated	< 0.050	< 0.300	<10.0	2,660	2,660	298	2,960	-
FL 5 @ 8'	12/1/2022	8	In-Situ	< 0.050	< 0.300	<10.0	718	718	121	839	-
FS 6 @ 3'	10/19/2022	3	Excavated	< 0.050	10.8	295	2,470	2,770	244	3,010	400
FL 6 @ 4'	10/25/2022	4	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 7 @ 3'	10/19/2022	3	In-Situ	< 0.050	3.72	50.8	562	613	71.9	685	608
EW 1	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	12.6	12.6	13.7	26.3	208
EW 2	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW 3	10/19/2022	0-	In-Situ	< 0.050	0.836	11.8	283	295	52.5	347	208
NW 1	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
NW 2	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	16.2	16.2	<10.0	16.2	640
NW 3	10/19/2022	0-		< 0.050	< 0.300	<50.0	1,130	1,130	321	1,450	80.0
NW 3 B	10/25/2022	0-	Excavated	< 0.025	< 0.150	<10.0	573	573	164	737	-
NW 3 C	11/14/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-
NW 4	10/19/2022	0-	Deferred	< 0.050	2.34	51.7	1,910	1,960	410	2,370	592
SW 1	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
SW 2	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<50.0	595	595	158	753	256
SW 3	10/19/2022	0-	In-Situ	< 0.050	7.30	191	3,840	4,030	561	4,590	896
SW 4	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	244	244	49.6	294	80.0
WW 1	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	848
WW 2	10/19/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	15.3	15.3	<10.0	15.3	320
WW 3	10/19/2022	0-	Excavated	< 0.050	21.1	377	2,540	2,920	428	3,350	160
WW 3 B	10/25/2022	0-	Excavated	< 0.025	< 0.150	57.1	2,290	2,350	525	2,870	-
WW 3 C	11/14/2022	0-	Excavated	< 0.050	< 0.300	<10.0	1,680	1,680	207	1,890	-
WW 3 D	12/1/2022	0-	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	-

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

Bold: NMOCD Closure Criteria exceedance.

WH 2 @ 1'

12/15/2022

In-Situ

< 0.050

< 0.300

<10.0

<10.0

< 20.0

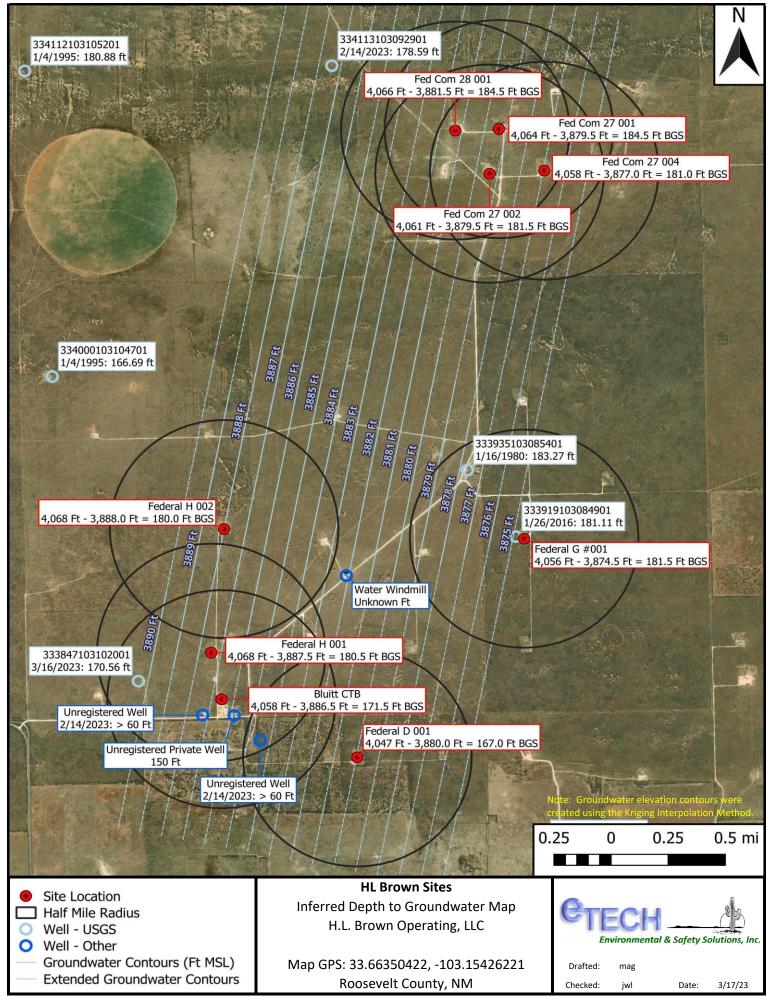
<10.0

< 30.0

128

	Table 1 Concentrations of BTEX, TPH, and Chloride in Soil											
H.L. Brown Operating, LLC												
Fed Com 28 001												
NMOCD Ref. #: nAPP2227230643												
NMOCD Closure Criteria 10 50 1,000 - 2,500												
NMOCD	Reclamation	Standard		10	50	-	-	-	-	100	600	
SW 846 8021B SW 846 8015M Ext.											4500 Cl	
Sample ID	Date	Depth (Feet)	Soil Status	Benzene (mg/kg)	$\begin{bmatrix} C_{2} - C_{10} \end{bmatrix} \begin{bmatrix} C_{10} - C_{20} \end{bmatrix} \begin{bmatrix} C_{20} - C_{20} \end{bmatrix} \begin{bmatrix} C_{20} - C_{20} \end{bmatrix} \begin{bmatrix} C_{20} - C_{20} \end{bmatrix}$							
WW 4	10/19/2022	0-	Deferred	< 0.050	4.60	121	1,780	1,900	281	2,180	1,540	
WW 5	10/19/2022	0-	Excavated	< 0.050	1.76	125	5,500	5,630	907	6,530	1,090	
WW 5 B	10/25/2022	0-	In-Situ	< 0.025	< 0.150	<10.0	<10.0	<20.0	<10.0	<30.0	1	
NH 1 @ 1'	12/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
NH 2 @ 1'	12/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128	
EH 1 @ 1'	12/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160	
SH 1 @ 1' 12/15/2022 1 In-Situ <0.050 <0.300 <10.0 <10.0 <20.0 <10.0 <30.0 1										112		
<u> </u>												
SH 2 @ 1'	12/15/2022	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	

Appendix A Depth to Groundwater Information





Ground Water Sampling Log

Well ID: Unregistered Well
Date: 2/14/2023

	escription/Co									
	HL BY					_ Personnel: _				
	escription/Loca							mp): <u> </u>		
Casing I	Well: Moni	tor Reco	very Pot	able Irri	gation (Other		(6.1)	/1 A.	
	Material: PVC on of Seal: Go									
	ng Data Vater Level ^b (ft ents: Opto O	bmp) > U	0 T	ime	M	leasure Point	Description _	Top of 6	asing .7	5 ft ass
Comme	ents: Upin @	COH,	, did v	cot 50	deeper	, teas o	+ equip	ment Da	must'	
Well P	urge Data						•			
		Volume I	Factors ^c] Well Vo	lume ((a-b) x	c) =	gal	
Dia (in		3″	4"	5"	6"		((= =) /.	-/	Bu.	
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
Well Pu	rging Method:	submers	sible peris	staltic ba	iler othe	er	_ Depth pun	np set (ft bmp)		E .
Water	Quality Indica	ator Parar	meters							
	Cumulative	Water				Specific				
Time	Gallons	Level		mp	pH (SLI)	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp) (C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	
	- min	**		-		20 20 20				
	_									
	Y									
			-							
					-	e				
			_							
			_							
			_							
			_							
	-	***					-			
ecording I	nterval: Traditiona	l volume purg	ge - every ½ w	vell volume;	Low flow - ev	ery 3-5 min, drav	vdown should no	ot exceed 0.33ft d	uring purging.	
Total Ga	llons Purged _			,	Approxima	te Discharge	Rate (gpm): _			
Sample										
Sample	Collection Met									
Comme	ents	*Projec	ct name fo	r sample l	abels (if ab	obr):	Dupli	cate Collected	? Y N	
	• pH: ±0.1						Sample tub	ing left in well	2 V N	
Criteria:	 SC: ±5%, for SC DO: ±10% or 0. 	3 mg/L (which	never is great	> 100 μS/cm er)			(circle yes or n	ing left in well o) o, length (ft)?	: 1 N	

me factors and stability criteria from USGS-NFM, 2006-Wilde et al., 1998, Driscoll, 1986, and EPA-Puls and Barcelona, 1996. Last form revision: 02.06.14.



Ground Water Sampling Log

Well ID: Clasesistered well Date: 2/14/2023

Project:	scription/Co	OWNS				_ Personnel:				
Well De	scription/Loca	tion: Ab	andone	d we	U	Tota	al Deptha (ft b	mp): <u>N/A</u>		
Type of	Well: Moni	tor Recov	ery Pota	able Ir	rigation (Other Abay	eloned L	instacle	*	
	Material: PVC									
Condition	on of Seal: Go	ood Poor	Needs Re	epair O	ther			Well Locke	d? Y N	
Gaugin Static W Comme	g Data /ater Level ^b (ft nts: <u> </u>	bmp) > 6	Did T	ime	M O deeper	leasure Point	Description _	iop of Co	asing 1	.s 4 ass
Well Pu	urge Data					_				
		Volume F	actors			Well Vo	lume ((a-b) x	c) =	gal	
Dia (in	~	3"	4"	5"	6"	_				
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
Well Pu	rging Method:	submers	ible peris	staltic l	pailer othe	er	_ Depth pun	np set (ft bmp)		a. al
Water	Quality Indica	ator Paran	neters							
	Cumulative	Water				Specific				1
	Gallons	Level		mp	рН	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp)	(°)	c)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	1
		se s ce			2 0	in the second	a r	- 1 *		
	,									
					VIII -				- Control Williams	
				1920						1000
ecording Ir	nterval: Traditiona	il volume purg	e - every ½ w	ell volume	e; Low flow - ev	rery 3-5 min, drav	wdown should no	t exceed 0.33ft d	uring purging.	-
Total Ga	llons Purged _				Approxima	ite Discharge	Rate (gpm): _			
Sample Sample	Data Collection Met	hod: sub	mersible	peristal	tic bailer	other	Sa	mple Time		
Comme								cate Collected		
Commit	.1163	ands.		-						
	9295 627 W					1				
Criteria:	 pH: ±0.1 SC: ±5%, for SC DO: ±10% or 0. 	3 mg/L (which	ever is great		m		(circle yes or n	ing left in well o) o, length (ft)?	? Y N	

• Temp: ± 0.2°C (USGS for thermistor)

Released to Imaging: 9/29/2023 9:49:50 AM



Ground Water Sampling Log

Well ID: 333647103102001

Date:	2	11417	016	

Project: Well De Type of Casing I Conditio	escription/Co : 14 L B escription/Loca Well: Monimaterial: PVC on of Seal: Go on of Seal: Go yeta Vater Level ^b (ft	tion: About Recov	very Pot ther Needs Ro	able I C epair (rrigation C Diameter: 2" Other	Tota Other 4" 6" Oth	al Depth ^a (ft b	mp): NA en (ft bmp): Well Lock	Show Pipe ed? Y N
	urge Data	9		'''	, , , ,	Colpan	900 9100	V-A-S	
VVCIII	uige Data	Volume F	actorsc		17705010010010	1			
Dia (in	.) 2"	3"	4"	5"	6"	- Well Vo	lume ((a-b) x	c) =	_gal
Gal/ft	0.163	0.367	0.653	1.02	0 1.469	Purging	Volume (3 x \	Well Vol) =	gal
	rging Method: Quality Indica			staltic	bailer othe	r	_ Depth pun	np set (ft bmp	o)
	Cumulative	Water				Specific			
	Gallons	Level	1	mp	рН	Cond.	TDS	DO	ORP
Time	Purged	(ft bmp)) (°	'C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)
5 B					v				
Total Ga	Collection Met	hod: sub	mersible	perista	Approxima	te Discharge I	Rate (gpm): _ Sa	ample Time _	
Criteria:	 pH: ±0.1 SC: ±5%, for SC DO: ±10% or 0. Temp: ± 0.2°C 	3 mg/L (which	never is great		/cm		(circle yes or n	ing left in we o) o, length (ft)?	

Received by OCD: 3/29/2023 3:12:04 PM



Ground Water Sampling Log

Well ID: 334113103092901

Date: 2/14/2023

Released to Imaging: 9/29/2023 9:49:50 AM

Site De	scription/Co	nstruction	Detail					7.1700	
	HL B					Personnel:			
Well De	scription/Loca	tion: Nh	of F	ed Ca	M a A	Tota	al Deptha (ft b	mp): NA	
Type of	Well: Moni	tor _Recov	very Pot	able Irr	igation C	other Abau	of ower!	1 ivestigely	,
								en (ft bmp): _	
								Well Locke	
Gaugin Static W	g Data	bmp) <u>17</u> (Top of Co	
Well Pu	ırge Data								
		Volume I	actors] Well Vo	lumo ((a.b) v	c) =	gal
Dia (in.) 2"	3"	4"	5"	6"	- Well vo	iuilie ((a-b) x	c) =	gai
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal
						-			
Well Pur	ging Method:	submers	ible peri	staltic b	ailer othe	r	_ Depth pun	np set (ft bmp)	
Water (Quality Indica	ator Parar	neters						
	Cumulative	Water				Specific			
Time	Gallons	Level		mp	pH (CLI)	Cond.	TDS	DO ((1)	ORP
Time	Purged	(ft bmp) (C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)
			v		2 *		160		-
		-					,	1002	
					-				
		-							
								=	
							<u> </u>		
ecoraing ir	iterval: i raditiona	ii voiume puri	ge - every 1/2 \	well volume	; Low flow - ev	ery 3-5 min, dra	wdown should no	ot exceed 0.33ft d	uring purging.
Total Ga	llons Purged _				Approxima	ate Discharge	Rate (gpm): _	<u>_</u>	
Sample	Data								
Sample (Collection Met	:hod: sub	mersible	peristalt	ic bailer	other	Sa	ample Time	
Comme	nts	*Proje	ct name fo	or sample	labels (if al	obr):	Dupli	cate Collected	? Y N
									
Criteria:	 pH: ±0.1 SC: ±5%, for SC DO: ±10% or 0 				n		(circle yes or r	oing left in wel no) o, length (ft)?	I? Y N

Temp: ± 0.2°C (USGS for thermistor)



Ground Water Sampling Log

Well ID: 333847103102001

Date:	3/	161	202	3

	escription/Co		Detail							
	HL Br					_ Personnel: _			-	
Well De	scription/Loca	tion: Ab	andon	ed we	!!	Tota	al Depth ^a (ft b	mp): <u>IV/A</u>		
Type of	Well: Monit Material: PVC	tor Reco	very Pota	able Irrig	gation C	ther /46a.	rdoned 1	well, Lin	ustocic.	
Casing I	viateriai: PVC	Stee 0	ther	Diar	neter: 2"	4" 6"/Oth	ier Scre	en (ft bmp): _	of moto	e
Conditio	on of Seal: Go	ooa Poor	Neeas Ke	epair Oth	er	N/A		Well Locke	di Y (N)	, t (a)
Gaugin Static W Comme	g Data /ater Level ^b (ft nts:	bmp) <u>176</u>	.56 T	ime	M	easure Point	Description _	Top of Co	esing ~?	2 ft 393
Well Pu	urge Data							950		
		Volume	Factorsc			Well Vo	lume ((a-h) v	c) =	σal	
Dia (in	.) 2"	3"	4"	5"	6"] ••••	idilic ((d b) X	·,	gui	
Gal/ft	0.163	0.367	0.653	1.020	1.469	Purging	Volume (3 x \	Well Vol) =	gal	
Well Pu	rging Method:	submers	ible peri	staltic ba	iler othe	r	_ Depth pun	np set (ft bmp)	· ×	
Water	Quality Indica	ator Parar	neters							
	Cumulative	Water				Specific				
T:	Gallons	Level	1	mp	pH	Cond.	TDS	DO	ORP	
Time	Purged	(ft bmp) (C)	(SU)	(mS/cm)	(g/l)	(mg/l)	(mV)	-
										-
					•					
	3		_							
										_
			307							
						10 TO				
				-						400
										1
Recording I	nterval: Traditiona	l volume pur	ge - every ½ v	vell volume; l	ow flow - ev	ery 3-5 min, drav	vdown should no	ot exceed 0.33ft d	uring purging.	1
T				-						
Total Ga	Illons Purged _	· · · · · · · · · · · · · · · · · · ·		F	Approxima	te Discharge	Rate (gpm): _	1		
Sample										
Sample	Collection Met									
Comme	ents	*Proje	ct name fo	r sample la	abels (if ab	br):	Dupli	cate Collected	? Y N	
Cr. 1 ***	300 S 100 S									
	pH: ±0.1SC: ±5%, for SC	< 100 uS/cm	: +3%, for SC	> 100 uS/cm				ing left in well	? Y N	
	• DO: ±10% or 0.						(circle yes or n	o, length (ft)?		
	 Temp: ± 0.2°C (USGS for the	rmistor)				11 30	o, 10118411 (11.):	*	*



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.

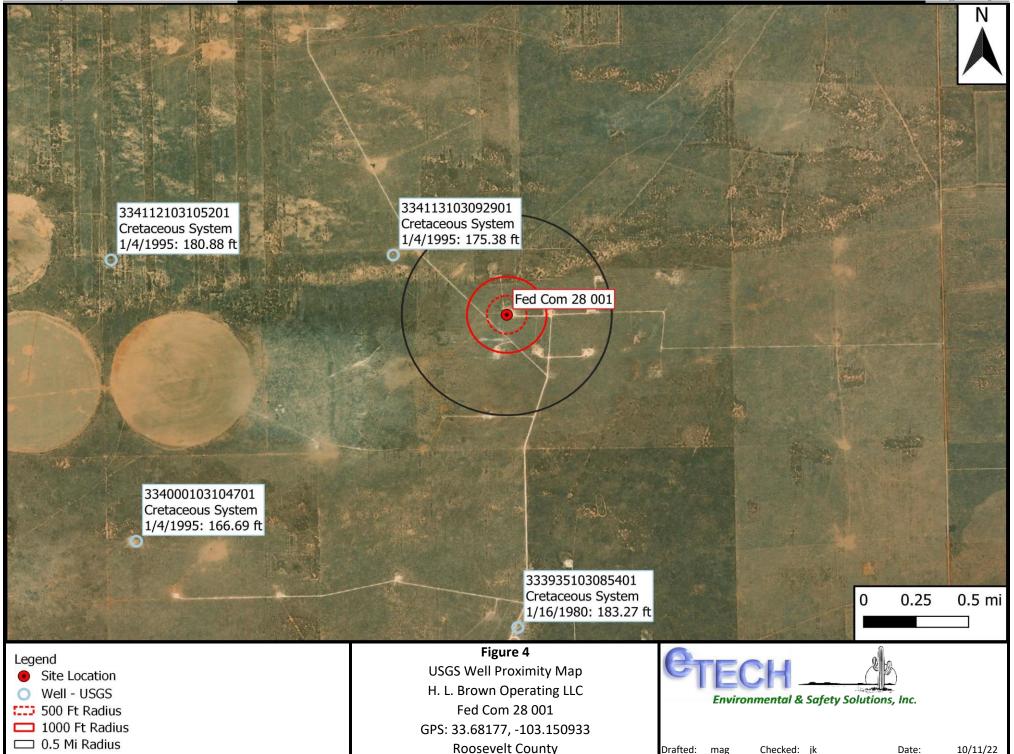
UTMNAD83 Radius Search (in meters):

Easting (X): 671403 **Northing (Y):** 3728406.35 **Radius:** 3220

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.

10/11/22 11:46 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Drafted: mag

Checked: jk

Date:

10/11/22



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USGS Water Resources	Data Category:	Geographic Area:		
obd5 Water Resources	Groundwater ~	United States	~	GO

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Agency code = usgs site no list = 333935103085401

Minimum number of levels = 1

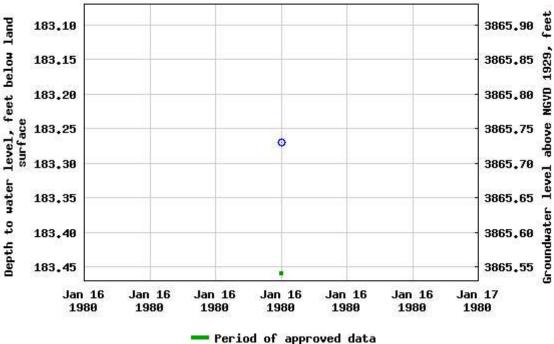
Save file of selected sites to local disk for future upload

USGS 333935103085401 07S.37E.33.444213

Available data for this site	Groundwater:	Field measurements	~	GO		
Roosevelt County, New Mex	xico					
Hydrologic Unit Code 1205	0001					
Latitude 33°39'33", Longit	ude 103°09	9'00" NAD27				
Land-surface elevation 4,0	49.00 feet a	above NGVD29				
The depth of the well is 20	8 feet belov	w land surface.				
This well is completed in the	ne High Plair	ns aquifer (N100)HGH	IPLN)	national a	quifer.
This well is completed in the	ne Cretaceo	us System (210	CRCS	S) loca	al aquifer.	

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

USGS 333935103085401 075,37E,33,444213



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0.58 0.49 nadww01





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Agency code = usgs **site_no list =** • 334000103104701

Minimum number of levels = 1

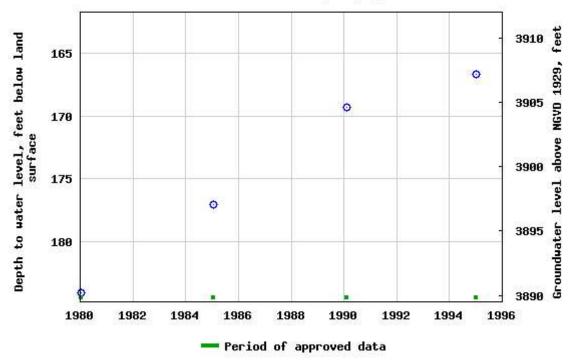
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USGS 334000103104701 07S.37E.32.134131

Available data for this site	Groundwater:	Field measurements	→ GO	
Roosevelt County, New Me	exico			
Hydrologic Unit Code 1205	50001			
Latitude 33°39'57", Longi	tude 103°1	0'53" NAD27		
Land-surface elevation 4,0	74.00 feet	above NGVD29		
This well is completed in t	he High Plai	ns aquifer (N100	HGHPLN)	national aquifer.
This well is completed in t	he Cretaceo	us System (2100	CRCS) loca	al aquifer.

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0.63 0.56 nadww01





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Agency code = usgs **site_no list =** • 334112103105201

Minimum number of levels = 1

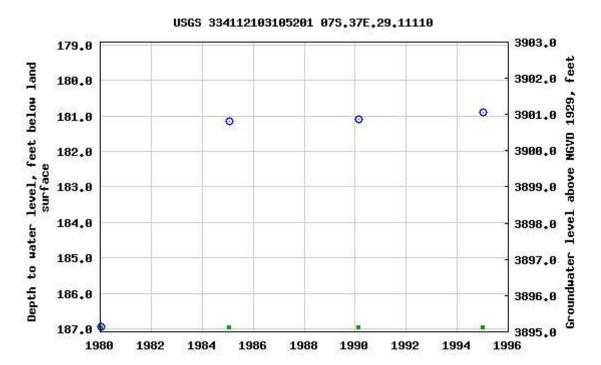
Save file of selected sites to local disk for future upload

USGS 334112103105201 07S.37E.29.11110

Available data for this site	Groundwater:	Field measurements	→ GO	
Roosevelt County, New Me	exico			
Hydrologic Unit Code 1205	50001			
Latitude 33°41'10", Longi	itude 103°10	0'59" NAD27		
Land-surface elevation 4,0)82.00 feet	above NGVD29		
This well is completed in t	he High Plai	ns aquifer (N100	HGHPLN) na	ational aquifer.
This well is completed in t	he Cretaceo	us System (210)	CRCS) local	aquifer.

Output formats

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



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0.6 0.52 nadww01





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Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 334113103092901

Minimum number of levels = 1

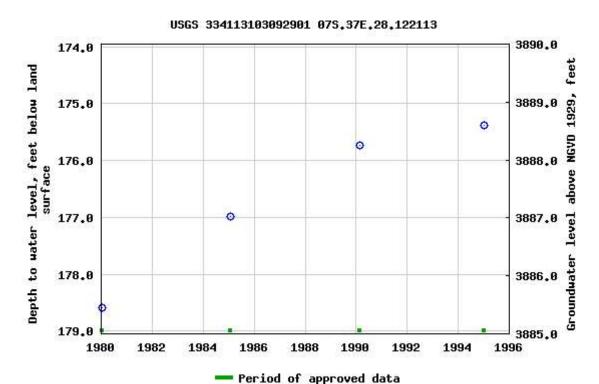
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USGS 334113103092901 07S.37E.28.122113

neasurements 💙	GO
NAD27	
NGVD29	
uifer (N100HGH	HPLN) national aquifer.
stem (210CRCS	S) local aquifer.
	NAD27 NGVD29 uifer (N100HGF

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



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0.62 0.55 nadww01



Appendix B Field Data and Soil Profile Logs



Field Map

Project Number:

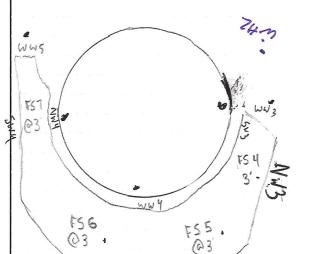
16848

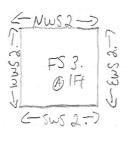
Released to Imaging: 9/29/2023 9:49:50 AM

Project: Fed Com 28 001

Date:

IHN





NHS

EW3



Sample Log

Date:		

Project:

Fed Com 28 001

Project Number:

16848

Latitude:

33.68177

Longitude:

-103.150933

Sample ID	PID/Odor	Chloride Conc.	GPS
F5 1. @ 3Ft	Light	1,328	dr3
SWS 1.		1.012	
Ews 1.	Light	460	
wws I.	* _	1.672	
VWS I.	-	1.072	
Ews 2.	_	296	
wws 2.	_	332	
NWS 2.	_	852	
Sws 2.	Light	332	
FS 2.@ 1Ft	medium	372	
wws3.	NICENIO M	152	
wwsy.		1260	
wws5.	5 -	588	V
<u>μως 3.</u>	2	152	
1ws 4.		444	
iws 3.		400	
SwS 3.		1020	
Sw5 4.		152	9
-5 4. @ 3Ft	Toilet woter		
5 5. 6 3 Ft	Gas	880	
5 5. © 3F4 5 6. © 3F4 5 7. © 3F4	Diesel	588 -	-
-S 7. @ 3Ft	-	816	
ww3c			
NW3C			
FL4@6'			
FL506			
NUM-DEF C			(
SW3DEF (D			
		9	
,			
£			
		¥	40
Sample Point = SP #1 @ ## etc	T.	Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc	No.	Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
	The state of the s		



Soil Profile

					Date:	12-1-22	
Project:	Fed Com 28 001				-		
Project Num		16848	Latitude:	33.68177	Longitude:	-103.150933	
		0.					
Depth (ft. bgs	s) 6 ^(*)	Calic	ne/Pad Mate	gried De	escription		
	1	Red	Sad				
	2	<u>i</u>	· ·				
	3						
	4						
	5						
	6						
	7						
	8	- (***************************************	***************************************	-		
	9						
1	.0	***************************************					
1	.1	***************************************					
1	.2	***************************************			31011111111111111111111111111111111111		
1	.3	***************************************					
1		***************************************			***************************************		
1							
1		***************************************					
1		***************************************					
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1		***************************************					
2							
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2		4					-
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2		***************************************					
2.		***************************************					
2:		40000000000000000000000000000000000000					
3		***************************************					
3.		Amount					_
		***************************************					7
3:							:50
3:		***************************************					:49
3.		***************************************					39
3:		***************************************					202
3		***************************************					29/
39		***************************************					6:
40		***************************************					ing
-10		344111111111111111111111111111111111111					Released to Imaging: 9/29/2023 9:49:50 AM
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Appendix C Laboratory Analytical Reports



December 16, 2022

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

RE: FED COM #28 001

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022 Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NH 1 @ 1' (H225931-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	89.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NH 2 @ 1' (H225931-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: 16848 Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: EH 1 @ 1' (H225931-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	87.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	96.8	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: SH 1 @ 1' (H225931-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	78.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.8	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: 16848 Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: SH 2 @ 1' (H225931-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.8	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Shalyn Rodriguez

Applyzod By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WH 1 @ 1' (H225931-06)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.0	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 12/15/2022 Sampling Date: 12/15/2022

Reported: 12/16/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: 16848 Sample Received By: Shalyn Rodriguez

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WH 2 @ 1' (H225931-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/15/2022	ND	2.10	105	2.00	0.959	
Toluene*	<0.050	0.050	12/15/2022	ND	2.12	106	2.00	0.0563	
Ethylbenzene*	<0.050	0.050	12/15/2022	ND	2.07	104	2.00	1.52	
Total Xylenes*	<0.150	0.150	12/15/2022	ND	6.37	106	6.00	2.40	
Total BTEX	<0.300	0.300	12/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/16/2022	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2022	ND	181	90.4	200	1.80	
DRO >C10-C28*	<10.0	10.0	12/16/2022	ND	177	88.7	200	0.294	
EXT DRO >C28-C36	<10.0	10.0	12/16/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105 9	6 46.3-17	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQ	UEST
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Project Manager	Etech Environmental & Safet	Joint	10115,	IIIC.						1	BIL	LTO	7			-	-	-						
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	State: N) 264-9884 Fax #-	M	Zip:	8824	0			Att		1	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	1									
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December 09, 2022

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

RE: FED COM 28 001

Enclosed are the results of analyses for samples received by the laboratory on 12/02/22 15:50.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 12/02/2022 Sampling Date: 12/01/2022 Reported: 12/09/2022 Sampling Type: Soil

Project Name: FED COM 28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: FL 4 @ 8' (H225679-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.98	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.02	101	2.00	4.62	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.24	104	6.00	4.62	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	108	200	0.808	
DRO >C10-C28*	257	10.0	12/07/2022	ND	202	101	200	2.41	
EXT DRO >C28-C36	30.3	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.7	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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

Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 12/02/2022 Sampling Date: 12/01/2022

Reported: 12/09/2022 Sampling Type: Soil

Project Name: FED COM 28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: FL 5 @ 8' (H225679-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.98	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.02	101	2.00	4.62	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.24	104	6.00	4.62	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	108	200	0.808	
DRO >C10-C28*	718	10.0	12/07/2022	ND	202	101	200	2.41	
EXT DRO >C28-C36	121	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	81.8 %	6 45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 %	6 46.3-17	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 12/02/2022 Sampling Date: 12/01/2022

Reported: 12/09/2022 Sampling Type: Soil

Project Name: FED COM 28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: SW 3 DEF @ 8' (H225679-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.06	103	2.00	3.71	
Toluene*	< 0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.98	
Ethylbenzene*	< 0.050	0.050	12/09/2022	ND	2.02	101	2.00	4.62	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.24	104	6.00	4.62	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	108	200	0.808	
DRO >C10-C28*	568	10.0	12/07/2022	ND	202	101	200	2.41	
EXT DRO >C28-C36	95.9	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	80.4 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.4 9	% 46.3-17	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



12/01/2022

Analytical Results For:

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

Sampling Date:

Tux

12/02/2022

Reported: 12/09/2022 Sampling Type: Soil

Project Name: FED COM 28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: RURAL ROOSEVELT CO., NM

Sample ID: WW 3 D (H225679-04)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/09/2022	ND	2.06	103	2.00	3.71	
Toluene*	<0.050	0.050	12/09/2022	ND	2.07	103	2.00	3.98	
Ethylbenzene*	<0.050	0.050	12/09/2022	ND	2.02	101	2.00	4.62	
Total Xylenes*	<0.150	0.150	12/09/2022	ND	6.24	104	6.00	4.62	
Total BTEX	<0.300	0.300	12/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	181	90.6	200	5.51	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	178	89.2	200	6.64	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					
Surrogate: 1-Chlorooctane	81.9 %	45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.3 %	6 46.3-17	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Revision 1.0

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety						
Project Manager: *	y Solutions, Inc.	BILL TO)		ANALYSIS	REQUEST
Address: 2617 W Marland		P.O. #:				
014	M 71 00040	Company H.L.B.	awn		4	
Dh # (575) 004 0004	M Zip: 88240	Attn:	The letter of the last			
		Address:				
	Owner: U.L. Brown	City:	7.4			
Project Name: Fed Com 28 001		State: Zip:	0	TPH (8015M) BTEX (8021B)		
Project Location: Rural Research Co. Sampler Name: Mywel Rumings	wa	Phone #:	Chloride	TPH (8015M)		
Sampler Name: Mywel Rumingz		Fax #:	18	I X		
FOR LAB USE ONLY	MATE	RIX PRESERV. I SAMP	LING	F H		
	(C)OMP ERS 4TER ER					
Lab I.D. Sample I.D.	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL					
Lab I.D. Sample I.D.	3 OR TAINE EWAT	ASE ::				
H2251079	(G)RAB # CONT, GROUN WASTEV	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	The same learning			
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive reme nalyses. All claims including those for negligence and any other cause whatsneyers	dy for any claim arising whether based in o	contract or tort, shall be limited to the amount p	aid by the client for the			
ervice. In no event shall Cardinal be liable for incidental or consequental damages in	columbia without the faction to be a series of the faction to the	rking and received by Cardinal within 30 days at	er completion of the applicable			
Relinquished By: Date:	Received By:	th claim is based upon any of the above stated in	easons or otherwise.	Yes □ No	Add'l Phone #:	
12-7-2 Time:		a 11/1/1/10	Fax Result:	Yes □ No	Add'I Fax #:	
Refinquished By: Time:) Julian	a Wilder	REMARKS:			
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Time:			Please email recu	ilte and oom	of CoC to C	
Delivered By: (Circle One)	#113 Sample Co		Please email resu	nts and copy (or CoC to pm@e	etechenv.com.
Sampler - UPS - Bus - Other: 3.7 c / 3	Cool Into	Yes S				
50511.000	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN	Name and Address of the Owner, where the Party of the Owner, where the Party of the Owner, where the Party of the Owner, where the Owner, which is the Ow				
Revision 1.0	Cardinal cannot accept	t verbal changes. Please fa	x written changes to	575-393-2476	6	



November 22, 2022

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

RE: FED COM #28 001

Enclosed are the results of analyses for samples received by the laboratory on 11/16/22 15:55.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Wite Sough

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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

 Received:
 11/16/2022
 Sampling Date:
 11/14/2022

 Reported:
 11/22/2022
 Sampling Type:
 Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: FL 4 @ 6' (H225427-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 69.9-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	2470	50.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	386	50.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	91.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	201	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: FL 5 @ 6' (H225427-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	2660	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	298	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	177 9	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NW 3 C (H225427-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.3	% 46.3-17	<i>'</i> 8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NW 4 - DEF @ 6' (H225427-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	769	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	69.6	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	92.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	132 9	% 46.3-17	8						

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: SW 3 - DEF @ 6' (H225427-05)

BTEX 8021B	mg/l	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6	
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5	
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5	
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2	
Total BTEX	<0.300	0.300	11/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9 %	69.9-14	0						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	215	108	200	11.0	
DRO >C10-C28*	3010	10.0	11/17/2022	ND	214	107	200	7.51	
EXT DRO >C28-C36	430	10.0	11/17/2022	ND					
Surrogate: 1-Chlorooctane	87.6 %	6 45.3-16	1						
Surrogate: 1-Chlorooctadecane	145 %	6 46.3-17	8						

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Me Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

Received: 11/16/2022 Sampling Date: 11/14/2022

Reported: 11/22/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WW 3 C (H225427-06)

BTEX 8021B	mg/l	kg	Analyze	d By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2022	ND	1.84	92.2	2.00	12.6		
Toluene*	<0.050	0.050	11/18/2022	ND	1.96	97.9	2.00	15.5		
Ethylbenzene*	<0.050	0.050	11/18/2022	ND	1.73	86.7	2.00	17.5		
Total Xylenes*	<0.150	0.150	11/18/2022	ND	5.13	85.5	6.00	19.2		
Total BTEX	<0.300	0.300	11/18/2022	ND						
Surrogate: 4-Bromofluorobenzene (PID	99.1 %	69.9-14	0							
TPH 8015M	mg/l	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	11/17/2022	ND	215	108	200	11.0		
DRO >C10-C28*	1680	10.0	11/17/2022	ND	214	107	200	7.51		
EXT DRO >C28-C36	207	10.0	11/17/2022	ND						
Surrogate: 1-Chlorooctane	83.9 %	6 45.3-16	1							
Surrogate: 1-Chlorooctadecane	221 %	6 46.3-17	<i>'</i> 8							

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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Mile Sough

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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RDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Revision 1.0

Received by OCD: 3/29/2023 3:12:04 PM

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



November 03, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FED COM #28 001

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 16:08.

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/ga/lab accredited certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS NM, 88240

Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 4 @ 4'	H225026-01	Soil	25-Oct-22 00:00	25-Oct-22 16:08
FL 5 @ 4'	H225026-02	Soil	25-Oct-22 00:00	25-Oct-22 16:08
FL 6 @ 4'	H225026-03	Soil	25-Oct-22 00:00	25-Oct-22 16:08
NW 3 B	H225026-04	Soil	25-Oct-22 00:00	25-Oct-22 16:08
WW 5 B	H225026-05	Soil	25-Oct-22 00:00	25-Oct-22 16:08
WW 3 B	H225026-06	Soil	25-Oct-22 00:00	25-Oct-22 16:08

11/03/22 - Client added TPH to sample -04 (See COC). This is the revised report and will replace the one sent on 10/31/22.

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

FL 4 @ 4' H225026-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									S-06
GRO C6-C10*	< 50.0		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
DRO >C10-C28*	7220		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	987		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			87.6 %	45.3	-161	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			266 %	46.3	-178	2102740	MS	29-Oct-22	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.9 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			89.9 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

FL 5 @ 4' H225026-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	< 50.0		50.0	mg/kg	5	2102742	MS	29-Oct-22	8015B	
DRO >C10-C28*	1840		50.0	mg/kg	5	2102742	MS	29-Oct-22	8015B	QM-07
EXT DRO >C28-C36	461		50.0	mg/kg	5	2102742	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			68.4 %	45.3	-161	2102742	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			172 %	46.3	-178	2102742	MS	29-Oct-22	8015B	
Volatile Organic Compounds l	by EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.0 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			95.1 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

FL 6 @ 4' H225026-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2102742	MS	31-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102742	MS	31-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102742	MS	31-Oct-22	8015B	
Surrogate: 1-Chlorooctane			86.1 %	45.3	-161	2102742	MS	31-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			99.3 %	46.3	-178	2102742	MS	31-Oct-22	8015B	
Volatile Organic Compounds by	EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.7 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			99.0 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			94.8 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celey D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

NW 3 B H225026-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2110223	MS	03-Nov-22	8015B	
DRO >C10-C28*	573		10.0	mg/kg	1	2110223	MS	03-Nov-22	8015B	
EXT DRO >C28-C36	164		10.0	mg/kg	1	2110223	MS	03-Nov-22	8015B	
Surrogate: 1-Chlorooctane			93.5 %	45.3	-161	2110223	MS	03-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	46.3	-178	2110223	MS	03-Nov-22	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			96.4 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			95.5 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			95.8 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

WW 5 B H225026-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2102742	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102742	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102742	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			97.7 %	45.3	-161	2102742	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			102 %	46.3	-178	2102742	MS	29-Oct-22	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			101 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			141 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celeg D. Keene



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

WW 3 B H225026-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by GO	C FID									S-06
GRO C6-C10*	57.1		50.0	mg/kg	5	2102735	MS	29-Oct-22	8015B	
DRO >C10-C28*	2290		50.0	mg/kg	5	2102735	MS	29-Oct-22	8015B	QM-07
EXT DRO >C28-C36	525		50.0	mg/kg	5	2102735	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			116 %	45.3	-161	2102735	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			259 %	46.3	-178	2102735	MS	29-Oct-22	8015B	
Volatile Organic Compounds by	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102753	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			95.7 %	83.7	-114	2102753	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3	-107	2102753	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			93.4 %	50.9	-150	2102753	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	Limit	Omis	Level	Result	/UKEC	Lillius	KI D	Lillit	110168
Batch 2102735 - General Prep - Organics										
Blank (2102735-BLK1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.1		mg/kg	50.0		100	45.3-161			
Surrogate: 1-Chlorooctadecane	57.5		mg/kg	50.0		115	46.3-178			
LCS (2102735-BS1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	204	10.0	mg/kg	200		102	76.8-124			
DRO >C10-C28	200	10.0	mg/kg	200		100	74.9-127			
Total TPH C6-C28	404	10.0	mg/kg	400		101	77.5-124			
Surrogate: 1-Chlorooctane	61.9		mg/kg	50.0		124	45.3-161			
Surrogate: 1-Chlorooctadecane	70.6		mg/kg	50.0		141	46.3-178			
LCS Dup (2102735-BSD1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	200	10.0	mg/kg	200		100	76.8-124	1.70	17.2	
DRO >C10-C28	203	10.0	mg/kg	200		102	74.9-127	1.40	18.6	
Total TPH C6-C28	403	10.0	mg/kg	400		101	77.5-124	0.151	17.6	
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	45.3-161			
Surrogate: 1-Chlorooctadecane	71.8		mg/kg	50.0		144	46.3-178			
Batch 2102740 - General Prep - Organics										
Blank (2102740-BLK1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22		_	
GRO C6-C10	ND	10.0	mg/kg			-				
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.6		mg/kg	50.0		81.2	45.3-161			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.2	46.3-178			

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Resuit	%REC	Limits	RPD	Limit	Notes
Batch 2102740 - General Prep - Organics										
LCS (2102740-BS1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	197	10.0	mg/kg	200		98.5	76.8-124			
DRO >C10-C28	209	10.0	mg/kg	200		105	74.9-127			
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.5-124			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	45.3-161			
Surrogate: 1-Chlorooctadecane	59.6		mg/kg	50.0		119	46.3-178			
LCS Dup (2102740-BSD1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	207	10.0	mg/kg	200		104	76.8-124	5.20	17.2	
DRO >C10-C28	235	10.0	mg/kg	200		117	74.9-127	11.5	18.6	
Total TPH C6-C28	442	10.0	mg/kg	400		111	77.5-124	8.52	17.6	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	45.3-161			
Surrogate: 1-Chlorooctadecane	61.1		mg/kg	50.0		122	46.3-178			
Batch 2102742 - General Prep - Organics										
Blank (2102742-BLK1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.5	45.3-161			
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.1	46.3-178			
LCS (2102742-BS1)				Prepared: 2	27-Oct-22 A	nalyzed: 2	9-Oct-22			
GRO C6-C10	208	10.0	mg/kg	200		104	76.8-124			
DRO >C10-C28	209	10.0	mg/kg	200		104	74.9-127			
Total TPH C6-C28	416	10.0	mg/kg	400		104	77.5-124			
Surrogate: 1-Chlorooctane	53.9		mg/kg	50.0		108	45.3-161			
Surrogate: 1-Chlorooctadecane	55.5		mg/kg	50.0		111	46.3-178			

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:12

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2102742 - General Prep - Organics										
LCS Dup (2102742-BSD1)				Prepared: 2	27-Oct-22 A	analyzed: 2	9-Oct-22			
GRO C6-C10	199	10.0	mg/kg	200		99.5	76.8-124	4.24	17.2	
DRO >C10-C28	199	10.0	mg/kg	200		99.4	74.9-127	4.78	18.6	
Total TPH C6-C28	398	10.0	mg/kg	400		99.4	77.5-124	4.51	17.6	
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	45.3-161			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	46.3-178			
Batch 2110223 - General Prep - Organics										
Blank (2110223-BLK1)				Prepared &	k Analyzed:	02-Nov-22	2			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.1	45.3-161			
Surrogate: I-Chlorooctadecane	47.8		mg/kg	50.0		95.7	46.3-178			
LCS (2110223-BS1)				Prepared &	k Analyzed:	02-Nov-22	2			
GRO C6-C10	185	10.0	mg/kg	200		92.3	76.8-124			
DRO >C10-C28	187	10.0	mg/kg	200		93.4	74.9-127			
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	77.5-124			
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.9	45.3-161			
Surrogate: 1-Chlorooctadecane	54.4		mg/kg	50.0		109	46.3-178			
LCS Dup (2110223-BSD1)				Prepared &	k Analyzed:	02-Nov-22	2			
GRO C6-C10	189	10.0	mg/kg	200		94.7	76.8-124	2.55	17.2	
DRO >C10-C28	192	10.0	mg/kg	200		96.0	74.9-127	2.74	18.6	
Total TPH C6-C28	381	10.0	mg/kg	400		95.3	77.5-124	2.64	17.6	
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.3	45.3-161			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	46.3-178			

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%REC

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Spike

Source

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reporting

Reported: 03-Nov-22 09:12

RPD

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2102753 - Volatiles										
Blank (2102753-BLK1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		96.3	83.7-114			
Surrogate: Toluene-d8	1.15		mg/kg	1.25		92.0	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.37		mg/kg	1.25		110	50.9-150			
LCS (2102753-BS1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	1.86	0.025	mg/kg	2.00		92.8	70.2-121			
Toluene	1.80	0.025	mg/kg	2.00		89.8	76.9-126			
Ethylbenzene	1.90	0.025	mg/kg	2.00		94.9	79.1-124			
m+p - Xylene	3.94	0.050	mg/kg	4.00		98.6	80.8-134			
o-Xylene	1.95	0.025	mg/kg	2.00		97.4	79-130			
Total Xylenes	5.89	0.075	mg/kg	6.00		98.2	80.5-132			
Surrogate: Dibromofluoromethane	1.19		mg/kg	1.25		95.4	83.7-114			
Surrogate: Toluene-d8	1.16		mg/kg	1.25		92.8	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.21		mg/kg	1.25		96.4	50.9-150			
LCS Dup (2102753-BSD1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	1.82	0.025	mg/kg	2.00		90.9	70.2-121	2.07	9.42	
Toluene	1.80	0.025	mg/kg	2.00		89.8	76.9-126	0.00	10	
Ethylbenzene	1.82	0.025	mg/kg	2.00		91.2	79.1-124	3.92	10	
m+p - Xylene	3.75	0.050	mg/kg	4.00		93.8	80.8-134	4.99	9.6	
Total Xylenes	5.89	0.075	mg/kg	6.00		98.2	80.5-132	0.00	9.26	
o-Xylene	1.87	0.025	mg/kg	2.00		93.5	79-130	4.10	8.93	
Surrogate: Dibromofluoromethane	1.19		mg/kg	1.25		95.4	83.7-114			
Surrogate: Toluene-d8	1.16		mg/kg	1.25		92.8	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.21		mg/kg	1.25		96.4	50.9-150			

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848
Project Manager: JOEL LOWRY

Fax To:

Reported:

03-Nov-22 09:12

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Celey D. Keene



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-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Received by OCD: 3/29/2023

Page 15 of 15

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Etech Environmental 3. Safe	ty	50	ots	ONC					I	BIL	LL TO					ANAL	YSIS	RE	QUE	ST]
Project Manage	Toel Lowry	1			,			P.C	D. #.															1
	1 w. Markand							Co	mpa	any:	Н	L Brow	·~	-										
City: 40665	State: NM	Zip	: 8	820	10			Att	n:		-	STO	11											
Phone #: 575	264 9879 Fax #:	/						Ad	dre	ss:	L	111	1											
Project #:	Project Owne	r: L	1.1	B	766	^		Cit	y:															ı
Project Name:	Fed com 28 001						-	Sta	ate:			Zip:				4,2								١
Project Location	1: Pural Roosevelt con Non							Ph	one	#:			7											١
Sampler Name:	prigue l'Euriner		_						x #:												*			١
FOR LAB USE ONLY					M	ATR	X		PRI	ESE	RV.	SAMP	LING											١
Lab I.D. H275624	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorida	BTEK	Adl								
1	FL 4 04'	C				X				X		10.25.22			X	X								1
2	FL5@4'	1				1				1					X	X								
3	FL6@4'	H			4	1									X	X		1 1	1	,				-
4	NW3B	Н	L		-		-		L		-				X		ad	de	1 /1	121	22			-
5	WWSB	Н	H		-	1	-				\dashv				X	X			-	-		_		-
6	ww3B	Η,			-	V	+				-	\			X	X								-
		1			+	+	+				1												_	1
		1													*									
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PLEASE NOTE: Liability ar	nd Damages. Cardinal's liability and client's exclusive remedy for	any clair	m arisir	ng whe	ther ba	sed in o	contract	or tor	t, shall	be lim	nited to	the amount paid	by the client for	the			 							-

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Relinquished By;	Date:	Received By:	2 1	Verbal Result: ☐ Y	es □ No	Add'l Phone #:	
$ \mathcal{A} $, $ \mathcal{A} $ $ \mathcal{A} $	10-25-22 Time:		11/1/2	All Results are emaile	d. Please prov	ride Email address:	
Mul Pan	Time: WD8	MIII (1411 (V))	Master				
Relinquished By:	Date:	Received By:		REMARKS:			
	Time:			DM	Dolor	henr. com	
,		~		1 1 0	e cre	nenv. con	
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	F7	Sample Condition
	Corrected Temp. °C		(Initials)	Thermometer ID #113	Rush	☐ Cool Intact	Observed Temp. °C
FORMANDO B 3 3 07/16/22	Corrected Temp.	No No	7	Correction Factor -0.6°C		□ Nc □ No	Corrected Temp. °C



November 03, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: FED COM #28 001

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 16:08.

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/ga/lab accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

Project: FED COM #28 001

Reported: 03-Nov-22 09:05

2617 W MARLAND HOBBS NM, 88240 Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH 1 @ SURFACE	H225025-01	Soil	25-Oct-22 00:00	25-Oct-22 16:08
WH 1 @ 1'	H225025-02	Soil	25-Oct-22 00:00	25-Oct-22 16:08
WW 4 - DEF @ 4'	H225025-03	Soil	25-Oct-22 00:00	25-Oct-22 16:08
SW 3 - DEF @ 4'	H225025-04	Soil	25-Oct-22 00:00	25-Oct-22 16:08
NW 3 - DEF @ 4'	H225025-05	Soil	25-Oct-22 00:00	25-Oct-22 16:08

11/03/22 - Client added TPH to samples -03 and -05 (see COC). This is the revised report and will replace the one sent on 11/01/22.

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Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

WH 1 @ SURFACE H225025-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	48.0		16.0	mg/kg	4	2102813	AC	28-Oct-22	4500-Cl-B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			88.8 %	45.3	-161	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	46.3	-178	2102740	MS	29-Oct-22	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			95.1 %	86.7	'-111	2102732	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			93.9 %	89.3	-110	2102732	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.2 %	88.2	-108	2102732	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

WH 1 @ 1' H225025-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	2102813	AC	28-Oct-22	4500-Cl-B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			67.2 %	45.3	-161	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			79.2 %	46.3	-178	2102740	MS	29-Oct-22	8015B	
Volatile Organic Compounds	by EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane		·	97.5 %	86.7	-111	2102732	MS	31-Oct-22	8260B	·
Surrogate: Toluene-d8			91.6 %	89.3	-110	2102732	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			96.7 %	88.2	-108	2102732	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

WW 4 - DEF @ 4' H225025-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
Surrogate: 1-Chlorooctane			89.7 %	45.3-	161	2110223	MS	02-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	46.3-	178	2110223	MS	02-Nov-22	8015B	
Volatile Organic Compounds by	EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.4 %	86.7	-111	2102732	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			93.3 %	89.3	-110	2102732	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			98.6 %	88.2-	108	2102732	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

SW 3 - DEF @ 4' H225025-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Petroleum Hydrocarbons by C	GC FID									S-06
GRO C6-C10*	125		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
DRO >C10-C28*	8230		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	868		50.0	mg/kg	5	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			126 %	45.3	-161	2102740	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			430 %	46.3	-178	2102740	MS	29-Oct-22	8015B	
Volatile Organic Compounds	by EPA Method	8260B								S-04
Benzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.4 %	86.7	-111	2102732	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			92.0 %	89.3	-110	2102732	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			119 %	88.2	-108	2102732	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

NW 3 - DEF @ 4' H225025-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2110223	MS	02-Nov-22	8015B	
Surrogate: 1-Chlorooctane			88.0 %	45.3	-161	2110223	MS	02-Nov-22	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	46.3	-178	2110223	MS	02-Nov-22	8015B	
Volatile Organic Compounds b	y EPA Method	8260B								
Benzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Toluene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Ethylbenzene*	< 0.025		0.025	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total Xylenes*	< 0.075		0.075	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Total BTEX	< 0.150		0.150	mg/kg	50	2102732	MS	31-Oct-22	8260B	
Surrogate: Dibromofluoromethane			96.0 %	86.7	-111	2102732	MS	31-Oct-22	8260B	
Surrogate: Toluene-d8			93.9 %	89.3	-110	2102732	MS	31-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			98.0 %	88.2	-108	2102732	MS	31-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2102813 - 1:4 DI Water										
Blank (2102813-BLK1)				Prepared &	Analyzed:	28-Oct-22				
Chloride	ND	16.0	mg/kg							
LCS (2102813-BS1)				Prepared &	Analyzed:	28-Oct-22				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2102813-BSD1)				Prepared &	Analyzed:	28-Oct-22				
Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20	

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Celeg D. Keine



%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: FED COM #28 001

Spike

Level

Source

Result

%REC

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

Blank (2102740-BLK1)				Prepared: 27-Oc	t-22 Analyzed: 2	29-Oct-22			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	40.6		mg/kg	50.0	81.2	45.3-161			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0	93.2	46.3-178			
LCS (2102740-BS1)				Prepared: 27-Oc	t-22 Analyzed: 2	29-Oct-22			
GRO C6-C10	197	10.0	mg/kg	200	98.5	76.8-124			
DRO >C10-C28	209	10.0	mg/kg	200	105	74.9-127			
Total TPH C6-C28	406	10.0	mg/kg	400	102	77.5-124			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0	103	45.3-161			
Surrogate: 1-Chlorooctadecane	59.6		mg/kg	50.0	119	46.3-178			
LCS Dup (2102740-BSD1)				Prepared: 27-Oc	t-22 Analyzed: 2	29-Oct-22			
GRO C6-C10	207	10.0	mg/kg	200	104	76.8-124	5.20	17.2	
DRO >C10-C28	235	10.0	mg/kg	200	117	74.9-127	11.5	18.6	
Total TPH C6-C28	442	10.0	mg/kg	400	111	77.5-124	8.52	17.6	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0	103	45.3-161			
Surrogate: 1-Chlorooctadecane	61.1		mg/kg	50.0	122	46.3-178			

Batch 2110223 - General Prep - Organics

Blank (2110223-BLK1)				Prepared & Analyz	zed: 02-Nov-22	2
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0	91.1	45.3-161
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0	95.7	46.3-178

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Celey D. Keene



%REC

Limits

RPD

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240

Analyte

Project: FED COM #28 001

Spike

Level

Source

Result

%REC

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

RPD

Limit

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

LCS (2110223-BS1)				Prepared & Anal	yzed: 02-Nov-2	2		
GRO C6-C10	185	10.0	mg/kg	200	92.3	76.8-124		
DRO >C10-C28	187	10.0	mg/kg	200	93.4	74.9-127		
Total TPH C6-C28	371	10.0	mg/kg	400	92.8	77.5-124		
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0	97.9	45.3-161		
Surrogate: 1-Chlorooctadecane	54.4		mg/kg	50.0	109	46.3-178		
LCS Dup (2110223-BSD1)				Prepared & Anal	yzed: 02-Nov-2	2		
GRO C6-C10	189	10.0	mg/kg	200	94.7	76.8-124	2.55	17.2
DRO >C10-C28	192	10.0	mg/kg	200	96.0	74.9-127	2.74	18.6
Total TPH C6-C28	381	10.0	mg/kg	400	95.3	77.5-124	2.64	17.6
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0	99.3	45.3-161		
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0	105	46.3-178		

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%REC

Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Spike

Source

Project Number: 16848

Project Manager: JOEL LOWRY

Fax To:

Reporting

Reported: 03-Nov-22 09:05

RPD

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		reporting		Spike	Bource		, or CLC		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2102732 - Volatiles										
Blank (2102732-BLK1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.19		mg/kg	1.25		94.9	83.7-114			
Surrogate: Toluene-d8	1.17		mg/kg	1.25		93.6	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.26		mg/kg	1.25		100	50.9-150			
LCS (2102732-BS1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	1.81	0.025	mg/kg	2.00		90.7	70.2-121			
Toluene	1.75	0.025	mg/kg	2.00		87.7	76.9-126			
Ethylbenzene	1.83	0.025	mg/kg	2.00		91.5	79.1-124			
m+p - Xylene	3.75	0.050	mg/kg	4.00		93.7	80.8-134			
Total Xylenes	5.62	0.075	mg/kg	6.00		93.7	80.5-132			
o-Xylene	1.87	0.025	mg/kg	2.00		93.6	79-130			
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		96.0	83.7-114			
Surrogate: Toluene-d8	1.16		mg/kg	1.25		93.0	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		99.4	50.9-150			
LCS Dup (2102732-BSD1)				Prepared: 2	27-Oct-22 A	nalyzed: 3	1-Oct-22			
Benzene	1.93	0.025	mg/kg	2.00		96.7	70.2-121	6.41	9.42	
Toluene	1.84	0.025	mg/kg	2.00		92.1	76.9-126	4.90	10	
Ethylbenzene	1.94	0.025	mg/kg	2.00		96.8	79.1-124	5.64	10	
m+p - Xylene	3.99	0.050	mg/kg	4.00		99.7	80.8-134	6.21	9.6	
o-Xylene	2.00	0.025	mg/kg	2.00		100	79-130	6.66	8.93	
Total Xylenes	5.99	0.075	mg/kg	6.00		99.8	80.5-132	6.36	9.26	
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		95.7	83.7-114			
Surrogate: Toluene-d8	1.15		mg/kg	1.25		91.9	95.3-107			S-05
Surrogate: 4-Bromofluorobenzene	1.24		mg/kg	1.25		99.3	50.9-150			

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions

2617 W MARLAND HOBBS NM, 88240 Project: FED COM #28 001

Project Number: 16848
Project Manager: JOEL LOWRY

Fax To:

Reported: 03-Nov-22 09:05

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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-05	The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
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

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Received by OCD: 3/29/2023

Page 14 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Frech Environmental 15	as	etu	50	Solutions BILL TO									ANA	LYSI	SF	EQI	JES	T		\vdash				
Project Manager: J	Toel Lowry							P.O. #: Company: H.L. Bown																	
Address: 1617 W								Cor	mpa	ny:	H	.L. Bown													
City: Hobbs	State: Nm	Zip	: 8	820	10	1		Attr	n:																
Phone #: 575 - 24	64.9884 Fax#:							Address:						-								- 1			
Project #: 8°	익장 Project Owner:	ч	٠.٢	13	row	n		City:																	
	d com 28 001							State: Zip:				_													
Project Location:	Rural Prosecuelt co., um						_	Phone #:											Į,		-				
Sampler Name:	Migue Raminz						_	Fax #:					*		x										
FOR LAB USE ONLY	· ·	σ.			MA	(TRI)	K	\dashv	PRE	SER	'	SAMPLING	\dashv	7											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OIHER	DATE TIME	E	Chlorid	BTEX	TPH									
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7 W	14101	1	1			,				1	1		-	X	X	A		0.	0	-	_	+			+
3 W	IN4-DEFQ4	Н						-		1	-		+	-	X	V	9	V	20	-	-	+			+
4 51	W4-DEF@4' W3-DEF@4' W4-DEF@4'	H			+			-		+	+		+	-	Y	X		1.0	-	+	+	\dashv			+
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affiliates or successors arising out of or related to the performan	nce of services hereunder by Ca	ardinal, regardless of whether such claim is base	ed upon any of the above stated re-	asons of outerwise.	5 N A L	U.D
Relinguished By:	Date:	Received By:		Verbal Result: ☐ Ye	00	'I Phone #:
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	1000	- contra ac	100 7	DEMARKS.		
Relinguished By:	Date:	Received By:		REMARKS:	1 (
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				I P	m @ eteche	11.00
9	Time:					
D. II (OlI- O)	Observed Town °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only) Sample Condition
Delivered By: (Circle One)	Observed Temp. °C	201		Turriar ouria Timor	Rush	Cool Intact Observed Temp. °C
		COOI IIILACL	(Initials)	I	itusii 🔲	
Committee LIDC Date Others	Corrected Temp. °C	Yes Yes		Thermometer ID #113		☐ Yes ☐ Yes
Sampler - UPS - Bus - Other:	confected remp. C	2/50 7 100 7 100		Correction Factor -0.6°C		Nc ☐ No Corrected Temp. °C
		O No No	, -	OCHOCHIC TOTAL	A CONTRACTOR OF THE PARTY OF TH	110 110



October 24, 2022

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

RE: FED COM #28 001

Enclosed are the results of analyses for samples received by the laboratory on 10/19/22 15:50.

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 10/19/2022 Sampling Date: 10/19/2022 Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: FS 1 @ 3' (H224926-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	332	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	120	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	95.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	165	% 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: FS 2 @ 3' (H224926-02)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	291	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	113	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	104	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	166	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: FS 3 @ 1' (H224926-03)

RTFY 8021R

B1EX 8021B	mg	^и кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	143	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	38.5	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	116	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	140	% 46.3-17	8						

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Celey D. Keene

C-04



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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: FS 4 @ 3' (H224926-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	ea By: JH/					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.223	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	0.717	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC1
Total Xylenes*	7.39	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	8.33	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	147	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	251	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	5750	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	623	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	235	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	242	% 46.3-17	8						

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S-04



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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

mg/kg

Sample ID: FS 5 @ 3' (H224926-05)

BTEX 8021B

		,		. , . ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.085	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	0.223	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC1
Total Xylenes*	2.61	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	2.91	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	172	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	822	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	7550	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	737	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	363	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	273	% 46.3-17	8						

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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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: Sample Received By: 16848 Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: FS 6 @ 3' (H224926-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.545	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	0.638	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC1
Total Xylenes*	9.59	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	10.8	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	421 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	295	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	2470	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	244	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	169 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	131 9	% 46.3-17	8						

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C-04



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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: FS 7 @ 3' (H224926-07)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.183	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	0.351	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC1
Total Xylenes*	3.18	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	3.72	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	142	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	50.8	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	562	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	71.9	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	126	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	164	% 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NW 1 (H224926-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	<10.0	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	97.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105 9	46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 16848 Sample Received By:

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NW 2 (H224926-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	16.2	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	107 9	45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	6 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

mg/kg

Sample ID: NW 3 (H224926-10)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	1130	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	321	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	211	% 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: NW 4 (H224926-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.079	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC
Total Xylenes*	2.26	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	2.34	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	324	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	51.7	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	1910	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	410	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	165	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 16848 Sample Received By:

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: EW 1 (H224926-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	12.6	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	13.7	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	95.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105 9	6 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 16848 Sample Received By:

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: EW 2 (H224926-13)

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	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	<10.0	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	99.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108 9	% 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: EW 3 (H224926-14)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	0.065	0.050	10/21/2022	ND	2.18	109	2.00	9.01	GC-NC1
Ethylbenzene*	0.074	0.050	10/21/2022	ND	2.14	107	2.00	8.78	GC-NC1
Total Xylenes*	0.697	0.150	10/21/2022	ND	6.52	109	6.00	9.42	GC-NC1
Total BTEX	0.836	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	131	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.8	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	283	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	52.5	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	103	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	132	% 46.3-17	8						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: SW 1 (H224926-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	<10.0	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	89.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.3	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Applyzed By: 1H /

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: SW 2 (H224926-16)

Received:

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	8.61	
Toluene*	<0.050	0.050	10/21/2022	ND	2.18	109	2.00	9.01	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.14	107	2.00	8.78	
Total Xylenes*	<0.150	0.150	10/21/2022	ND	6.52	109	6.00	9.42	
Total BTEX	<0.300	0.300	10/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	595	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	158	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	90.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	120	% 46.3-17	8						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte

C-04



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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: SW 3 (H224926-17)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.26	113	2.00	3.76	
Toluene*	0.754	0.050	10/21/2022	ND	2.17	109	2.00	4.45	GC-NC1
Ethylbenzene*	1.65	0.050	10/21/2022	ND	2.10	105	2.00	4.70	GC-NC1
Total Xylenes*	4.89	0.150	10/21/2022	ND	6.35	106	6.00	5.06	GC-NC1
Total BTEX	7.30	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	406	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	191	50.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	3840	50.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	561	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	113	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	139	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: SW 4 (H224926-18)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	ea By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2022	ND	2.26	113	2.00	3.76	
Toluene*	<0.050	0.050	10/20/2022	ND	2.17	109	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/20/2022	ND	2.10	105	2.00	4.70	
Total Xylenes*	<0.150	0.150	10/20/2022	ND	6.35	106	6.00	5.06	
Total BTEX	<0.300	0.300	10/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/20/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	244	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	49.6	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	99.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	126	% 46.3-17	78						

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Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

mg/kg

Sample ID: WW 1 (H224926-19)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2022	ND	2.26	113	2.00	3.76	
Toluene*	<0.050	0.050	10/20/2022	ND	2.17	109	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/20/2022	ND	2.10	105	2.00	4.70	
Total Xylenes*	<0.150	0.150	10/20/2022	ND	6.35	106	6.00	5.06	
Total BTEX	<0.300	0.300	10/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	<10.0	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.7	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact Sample Received By: Project Number: 16848 Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WW 2 (H224926-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/20/2022	ND	2.26	113	2.00	3.76	
Toluene*	<0.050	0.050	10/20/2022	ND	2.17	109	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/20/2022	ND	2.10	105	2.00	4.70	
Total Xylenes*	<0.150	0.150	10/20/2022	ND	6.35	106	6.00	5.06	
Total BTEX	<0.300	0.300	10/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.9	% 69.9-14	0						
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	10/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/20/2022	ND	204	102	200	4.85	
DRO >C10-C28*	15.3	10.0	10/20/2022	ND	205	102	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	84.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.0	% 46.3-17	8						

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Celey D. Keene

C-04



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: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Analyzed By: 14

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

ma/ka

Sample ID: WW 3 (H224926-21)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.26	113	2.00	3.76	
Toluene*	1.63	0.050	10/21/2022	ND	2.17	109	2.00	4.45	GC-NC1
Ethylbenzene*	1.20	0.050	10/21/2022	ND	2.10	105	2.00	4.70	GC-NC1
Total Xylenes*	18.2	0.150	10/21/2022	ND	6.35	106	6.00	5.06	GC-NC1
Total BTEX	21.1	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	376	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	377	50.0	10/20/2022	ND	219	110	200	6.82	
DRO >C10-C28*	2540	50.0	10/20/2022	ND	206	103	200	6.50	QM-07
EXT DRO >C28-C36	428	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	118	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	202	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WW 4 (H224926-22)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.26	113	2.00	3.76	
Toluene*	0.237	0.050	10/21/2022	ND	2.17	109	2.00	4.45	GC-NC1
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.10	105	2.00	4.70	GC-NC
Total Xylenes*	4.36	0.150	10/21/2022	ND	6.35	106	6.00	5.06	GC-NC1
Total BTEX	4.60	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	420	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	10/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	121	10.0	10/20/2022	ND	219	110	200	6.82	
DRO >C10-C28*	1780	10.0	10/20/2022	ND	206	103	200	6.50	
EXT DRO >C28-C36	281	10.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	101	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	167	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

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

Fax To:

Received: 10/19/2022 Sampling Date: 10/19/2022

Reported: 10/24/2022 Sampling Type: Soil

Project Name: FED COM #28 001 Sampling Condition: Cool & Intact
Project Number: 16848 Sample Received By: Tamara Oldaker

Project Location: HL BROWN - RURAL ROOSEVELT CO., NI

Sample ID: WW 5 (H224926-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/21/2022	ND	2.26	113	2.00	3.76	
Toluene*	<0.050	0.050	10/21/2022	ND	2.17	109	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/21/2022	ND	2.10	105	2.00	4.70	GC-NC
Total Xylenes*	1.76	0.150	10/21/2022	ND	6.35	106	6.00	5.06	GC-NC1
Total BTEX	1.76	0.300	10/21/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	362	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result Reporting Lin		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	10/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	125	50.0	10/20/2022	ND	219	110	200	6.82	
DRO >C10-C28*	5500	50.0	10/20/2022	ND	206	103	200	6.50	
EXT DRO >C28-C36	907	50.0	10/20/2022	ND					
Surrogate: 1-Chlorooctane	110	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	252	% 46.3-17	8						

Surrogate: 1-Chlorooctadecane 252 % 46.3-1/8

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Received by OCD: 3/29/2023 3:12:04 PM

Page 26 of 28

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1

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

Company Name	ETech Environmen	tul 3 safety	solution	ns.		B	LL TO				ANA	LYSIS	REQ	UEST		
Project Manage	ir: Jael Lowny				P.O. 1	THE RESERVE OF THE PERSON NAMED IN								T	П	\neg
Address: 26/7	W. Marland				Comp	any: /	4.L. Brown	1								
City: Hobbs	S	tate: Nm Zip:	88246		Attn:									(A)		
Phone #: 575	.264.9884 Fa	x #:			Addre	ss:										
Project #: 168	348 Pr	oject Owner: H.	L. Brown		City:											
Project Name:	Fed com # 28 00)			State:		Zip:									
Project Location	n: Rura 1 Rossevelt Miguel Pamire	CO-INM			Phon	e #:		1 1								
Sampler Name:	Miguel Pamire	2			Fax #											
FOR LAB USE ONLY			М	ATRIX	PR	ESERV	SAMPLING	7 1								
Lab I.D. H224926	Sample I.D.	G)RAB OR (C)OMI	# CONTAINERS GROUNDWATER WASTEWATER	SLUDGE	OTHER: ACID/BASE:	ICE / COOL	DATE TIME	Chlorides	BTEX	161			*			
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PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exc ng those for negligence and any other cause w	clusive remedy for any claim as	rising whether bas	ed in contract	or tort, shall	be limited	to the amount paid by the client for	or the	V	V						
service. In no event shall Ca	ardinal be liable for incidental or consequental agout of or related to the performance of servi	damages, including without lir	mitation, business	interruptions. I	oss of use.	or loss of n	ofits incurred by client its subsidia	arioe	е							
Relinguished By	the perior matter of services	to: Door	gardless of wheth	er such claim i	s pased up	on any of th	e above stated reasons or otherwi	ise.				Am delicated and the second				

Delinewished D.	Trained of Services Heredinast by C	valuation, regardless of whether such ciallins	based upon any of the above stated i	easons or otherwise.					
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	Time:	101.000 1	10010110	All Results are ellianed	i. Ficase prov	iue Lilla	all address.		
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				1					14
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	n CHECKED BY:	Turnaround Time:	Standard	[2]	Bacteria (only)	Sample Condition	
		Cool Intact	(Initials)	Tannar Ganta Timor	Rush				
Sampler - UPS - Bus - Other:	Corrected Town 90			L	Rusii		Cool Intact	Observed Temp. °C	
Sampler - OFS - Bus - Other.	Corrected Temp. °C	7		Thermometer ID #113			Yes Yes		
		□ No □ No	T	Correction Factor -0.6°C			☐ Nc ☐ No	Corrected Temp. °C	: 1
FURIVI-000 R 3.3 07/16/22								The second secon	The second second

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

28

Page 27 of

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

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/	5
61	

Company Name	: Etech Environmental 3 sa	Ch		Solo	tio	n5					BI	LL	TO							ANA	LYSI	S RE	QUE	ST		
Project Manage	Toel lowry							P.	0. #	ŧ:						T										
	W. Marland							Co	omp	any	r: H	·L.	Bro	wa												Н
City: Hobbs	State: NM	Zip	30	324	Ø			At	tn:																	
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	Miguel Raminec							Fa	x #	:																
FOR LAB USE ONLY					M	IATR	IX		PR	ESE	RV.		SAM	PLING												
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Lab I.D. H224926	Sample I.D.	(G)RAB OR (C)C	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		АТĘ	TIME												
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77	WWI		1		+	1	+	+	+	1			1/			,	1	1		-	-		-			+
PLEASE NOTE: Liability as	WWZ nd Darmages, Cardinal's liability and client's exclusive remedy for a	ny clain	n arisir	ng whet	ther ha	sed in	contrac	t or to	rt, sha	II be I	imited t	to the ar	mount pa	id by the client for	the	Y	4	4								

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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By	Date: Receiv	ved By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Receiv	ved By:	REMARKS: PM @ etechenu.com
	bserved Temp. °C 3	Sample Condition CHECKED BY: Cool Intact (Initials)	: Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other: C	orrected Temp. °C 3.5	Yes Yes No No No	Thermometer ID #113

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 28 of

Released to Imaging: 9/29/2023 9:49:50 AM

3/3

Company Name	Etech Envi	vormental 3	Sus	ch	e S	olut	flon	5			BI	LL TO	1-4					AN	IAL	YSIS	RE	QUE	ST			
Project Manage	er: Joel Lowry				1			1	P.O.	#:																
Address: 261	1 W. Marlard								Com	pan	y: [t.L. 130	246							1						
city: Hobbs		State: NM	Zip	: 8	026	10		/	Attn:	:																
Phone #: 575	-264-9884	Fax #: /						/	Addı	ress	:															
Project #: 168		Project Owner	r: 4	.C	. 13	3104	١٩	-	City:																	
Project Name:	Fed Com #28	001						_ !	State	e:		Zip:														-
Project Locatio	n: Rural Roose	exelf co., Nr	1						Pho	ne #	:					-										
Sampler Name:	n: Pural Roose : Miguel P	amire							Fax					1											ı	
FOR LAB USE ONLY						MA	TRIX		P	RES	ERV.	SAME	LING													
Lab I.D. 4724924	Sample	e I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME	Chloredo	BTEX	Thil									,	
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Appendix D Photographic Log

Photographic Log

Photo Number:

#1

Photo Direction:

North

Photo Description:

Initial release photo.



Photo Number:

#2

Photo Direction:

Southeast

Photo Description:

Initial release photo.



Photographic Log

Photo Number:

#3

Photo Direction:

East

Photo Description:

During remediation activities.



Photo Number:

#4

Photo Direction:

West

Photo Description:

During remediation activities.



Photographic Log

Photo Number: #5

Photo Direction: Northwest

Photo Description:After completion of remediation activities.





Photo Direction:

Northeast

Photo Description:

After completion of remediation activities.



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

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**

COMMENTS

Action 202009

COMMENTS

Operator:	OGRID:
H L BROWN OPERATING, LLC	213179
P.O. Box 2237	Action Number:
Midland, TX 79702	202009
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
csmit	7/17/23 Returned to OCD Review, to reevaluate Depth to Water information.	7/17/2023

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

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 202009

CONDITIONS

Operator:	OGRID:
H L BROWN OPERATING, LLC	213179
P.O. Box 2237	Action Number:
Midland, TX 79702	202009
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Crea By	ted Condition	on .	Condition Date
nve	lez Deferr	ral request is approved. OCD has accepted the groundwater determination albeit it was outside the preferential 1/2 mile radius determination.	9/29/2023