

Incident ID	nAPP2128043375
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>40</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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


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

State of New Mexico
Oil Conservation Division

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

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 9/16/2022
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Jocelyn Harimon Date: 09/16/2022

Incident ID	nAPP2128043375
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Closure

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

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

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

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

Printed Name: Connor Walker Title: Sr. Engineer
Signature:  Date: 9/16/2022
email: cwalker@mewbourne.com Telephone: (806)202-5281

OCD Only

Received by: Jocelyn Harimon Date: 09/16/2022

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

Closure Approved by:  Date: 12/13/2022
Printed Name: Jocelyn Harimon Title: Environmental Specialist

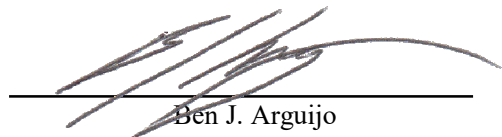
Remediation Summary & Soil Closure Request

Mewbourne Oil Company CWMS 12" Riser

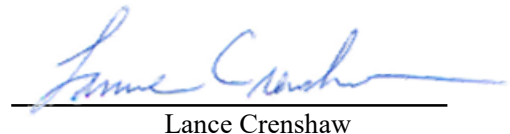
Eddy County, New Mexico
Unit Letter "B", Section 34, Township 25 South, Range 28 East
Latitude 32.091799 North, Longitude 104.071289 West
NMOCD Reference No. nAPP2128043375

Prepared By:

Etech Environmental & Safety Solutions, Inc.
6309 Indiana Ave, Ste. D
Lubbock, Texas 79413



Ben J. Arguijo



Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the CWMS 12" Riser. Details of the release are summarized below:

Location of Release Source

Latitude: 32.091799 Longitude: -104.0712890

Provided GPS are in WGS84 format.

Site Name:	CWMS 12" Riser	Site Type:	Pipeline
Date Release Discovered:	9/27/2021	API # (if applicable):	N/A

Unit Letter	Section	Township	Range	County
"B"	34	25S	28E	Eddy

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 17	Volume Recovered (bbls) 0
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered

Cause of Release:

A HDPE riser developed a leak at a flanged connection. A portion of the release overlapped and commingled with impacted soil from an unrelated, third-party release. The releases were remediated concurrently.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the CWMS 12" Riser release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	40'	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the CWMS 12" Riser release site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 REGULATORY CORRESPONDENCE

On December 22, 2021, an extension request was submitted to the NMOCD asking for additional time to prepare a remediation plan or closure report, as the release site was inaccessible due to ongoing road/bridge construction activities. The extension request was subsequently approved by the NMOCD.

Copies of all regulatory correspondence are provided in Appendix E.

5.0 REMEDIATION ACTIVITIES SUMMARY

On July 11, 2022, remediation activities commenced following the completion of ongoing road/bridge construction that had precluded access to the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-approved surface waste facility for disposal. The floor and sidewalls of the excavation were advanced until field observations and test results suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 50 linear feet from the excavation sidewalls and every 200 square feet from the floor of the excavated area to be submitted for laboratory analysis.

On July 11, 2022, Etech collected four (4) confirmation soil samples (EW1, WW1, FL 1 @ 2', and FL 2 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory method detection limit (MDL). Chloride concentrations ranged from 192 mg/kg in soil sample WW1 to 256 mg/kg in soil sample EW1.

On July 12, 2022, Etech collected four (4) confirmation soil samples (EW2, WW2, FL 3 @ 2', and FL 4 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 80.0 mg/kg in soil sample WW2 to 480 mg/kg in soil sample EW2.

On July 13, 2022, Etech collected 13 confirmation soil samples (NW1, EW3, EW4, WW3, WW4, and FL 5 @ 2' through FL 12 @ 2') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL, with the exception of soil sample FL 9 @ 1', which exhibited a BTEX concentration of 3.13 mg/kg. Chloride concentrations ranged from 160 mg/kg in soil sample EW3 to 480 mg/kg in soil sample FL 12 @ 2'.

On July 14, 2022, Etech collected nine (9) confirmation soil samples (EW5, WW5, and FL 13 @ 1' through FL 19 @ 1') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 144 mg/kg in soil sample WW5 to 496 mg/kg in soil sample FL 15 @ 1'.

On July 15, 2022, Etech collected six (6) confirmation soil samples (OL - NW1, OL - EW1, OL - SW1, OL - WW1, OL - FL 1 @ 4', and OL - FL 2 @ 4') from the sidewalls and floor of the excavation in the commingled/overlap area (OL). The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX and TPH concentrations were also below the applicable laboratory MDL. Chloride concentrations ranged from 16.0 mg/kg in soil sample OL - FL 1 @ 4' to 288 mg/kg in soil samples OL - NW1 and OL - WW1.

The final dimensions of the excavated area were approximately 448 feet in length, 18 to 45 feet in width, and one (1) to four (4) feet in depth. During the course of remediation activities, Etech transported approximately 160 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 156 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected area was compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an agency and/or landowner-approved seed mixture during the first favorable growing season following closure of the site.

7.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company, provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the CWMS 12" Riser release site.

8.0 LIMITATIONS

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

This report has been prepared for the benefit of Mewbourne Oil Company. Use of the information contained in this report is prohibited without the consent of Etech and/or Mewbourne Oil Company.

9.0 DISTRIBUTION

Mewbourne Oil Company

4801 Business Park Blvd.

Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

811 S. First Street

Artesia, NM 88210

Hobbs Field Office

New Mexico State Land Office

2827 North Dal Paso Street

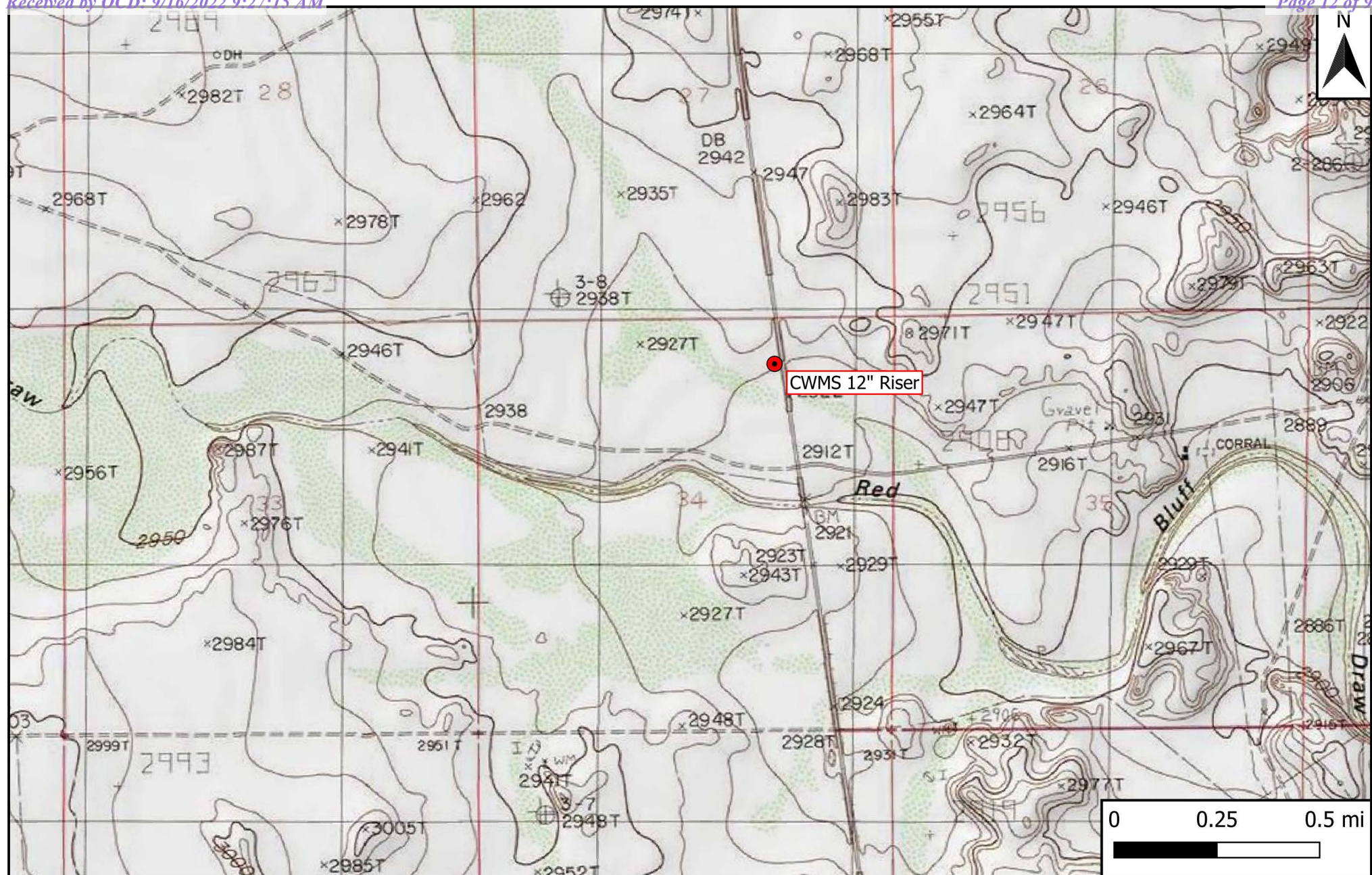
Suite 117

Hobbs, NM 88240

(Electronic Submission)

Figure 1

Topographic Map



Legend

- Site Location

Figure 1
 Topographic Map
 Mewbourne Oil Company
 CWMS 12\"/>



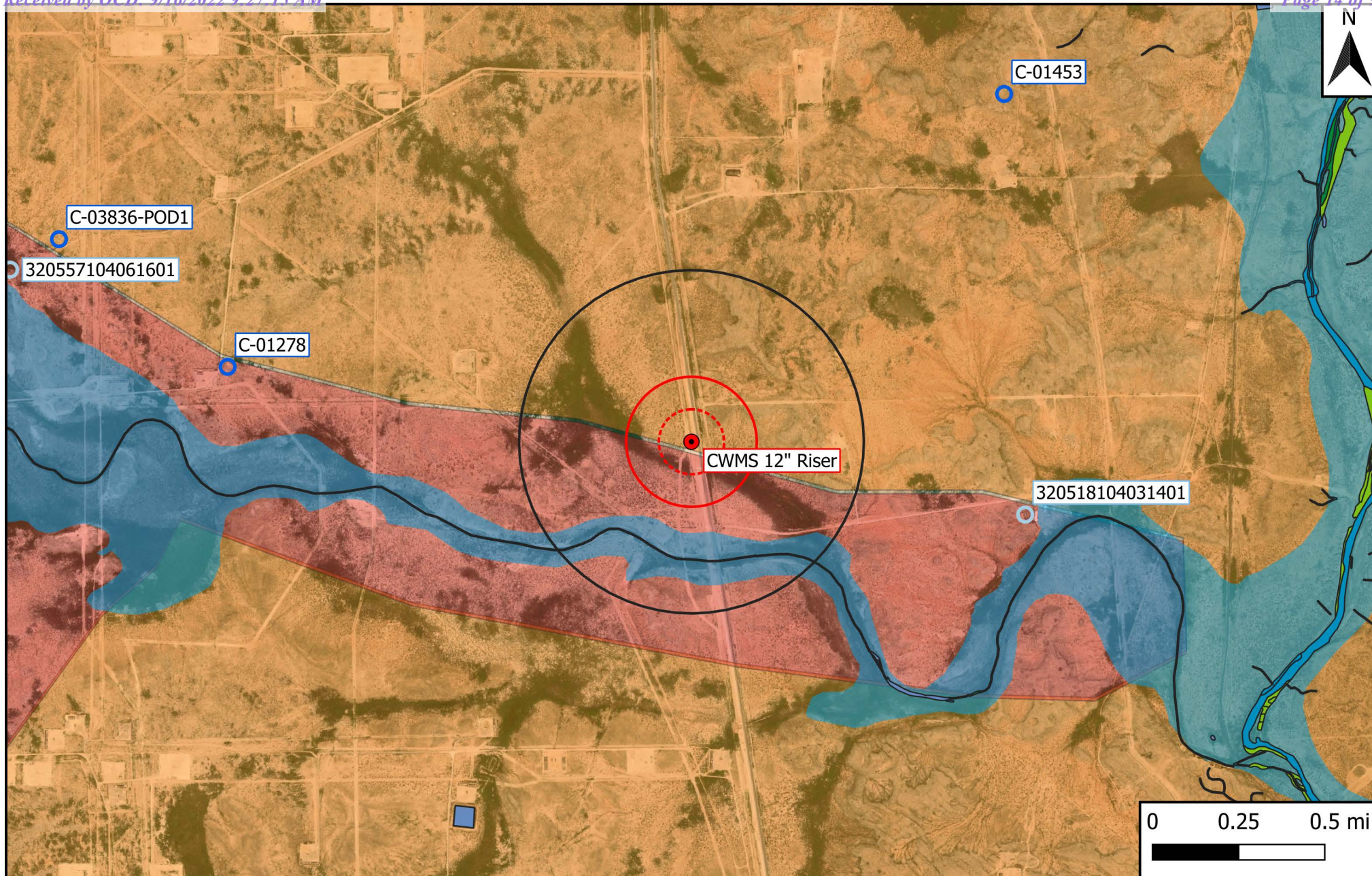
Drafted: bja

Checked: jwl

Date: 8/25/22

Figure 2

Site Characterization Map



Legend

- | | | |
|------------------------------|---------------------------------|------------------------|
| ● Site Location | 100-Year Floodplain | --- 500-Ft Radius |
| ○ Well - NMOSE | Emergent/Forested Wetlands | --- 1,000-Ft Radius |
| ○ Well - USGS | Freshwater Pond/Lake | --- 0.5-Mi Radius |
| ○ Well - Exploratory/Monitor | Karst Potential (Low/Med./High) | --- Municipal Boundary |
| — Potash Mine Workings | Riverine | |

Figure 2

Site Characterization Map
 Mewbourne Oil Company
 CWMS 12" Riser
 GPS: 32.091799, -104.071289
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22

Figure 3

Site & Sample Location Map



Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS 12" Riser NMOCD Ref. #: nAPP2128043375											
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
NW1	7/13/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
EW1	7/11/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
EW2	7/12/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
EW3	7/13/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EW4	7/13/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW5	7/14/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
WW1	7/11/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
WW2	7/12/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW3	7/13/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
WW4	7/13/2022	0.5-1.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
WW5	7/14/2022	0.5-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 1 @ 2'	7/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 2 @ 2'	7/11/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 3 @ 2'	7/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 4 @ 2'	7/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 5 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 6 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 7 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 8 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 9 @ 1'	7/13/2022	1	In-Situ	<0.050	3.13	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 10 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 11 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 12 @ 2'	7/13/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FL 13 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 14 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FL 15 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FL 16 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL 17 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 18 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 19 @ 1'	7/14/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
Commingle/Overlap Area											
OL - NW1	7/15/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
OL - EW1	7/15/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
OL - SW1	7/15/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
OL - WW1	7/15/2022	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
OL - FL 1 @ 4'	7/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
OL - FL 2 @ 4'	7/15/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0

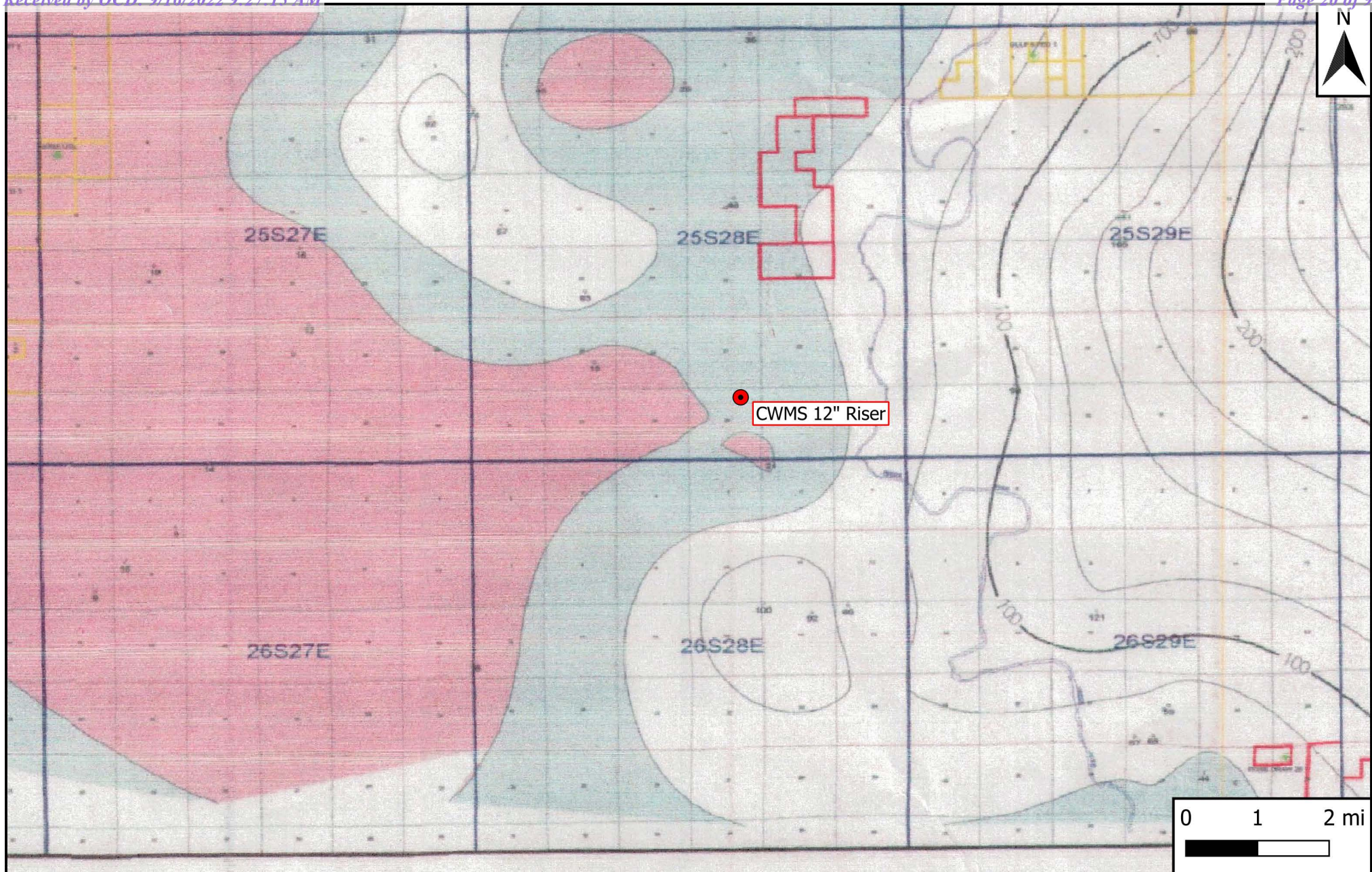
Dash (-): Sample not analyzed for that constituent.

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Appendix A

Depth to Groundwater Information



Legend

- Site Location

Figure 4

Inferred Depth to Groundwater Trend Map
 Mewbourne Oil Company
 CWMS 12" Riser
 GPS: 32.091799, -104.071289
 Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02477	CUB	ED		1	1	03	26S	28E		586687	3549347*	1890	150		
C 01453	C	ED		1	2	26	25S	28E		589096	3552612*	2189	70	40	30
C 01278	C	ED		4	3	28	25S	28E		585470	3551338*	2190	205	90	115

Average Depth to Water: **65 feet**

Minimum Depth: **40 feet**

Maximum Depth: **90 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 587631.38

Northing (Y): 3550984.98

Radius: 2414

*UTM location was derived from PLSS - see Help

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

9/14/22 1:20 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02477	1	1	03	26S	28E		586687	3549347*
Driller License:		Driller Company:							
Driller Name:		HEPLER BROS							
Drill Start Date:		Drill Finish Date:				12/31/1912		Plug Date:	
Log File Date:		PCW Rev Date:						Source:	
Pump Type:		Pipe Discharge Size:						Estimated Yield:	
Casing Size:		Depth Well:				150 feet		Depth Water:	
		6.00						6 GPM	

*UTM location was derived from PLSS - see Help

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

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	01278	4	3	28	25S	28E	585470	3551338*	

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY	
Driller Name:	ABBOTT, MUNELL			
Drill Start Date:	04/04/1965	Drill Finish Date:	04/08/1965	Plug Date:
Log File Date:	05/27/1965	PCW Rev Date:		Source:
Pump Type:		Pipe Discharge Size:		Estimated Yield:
Casing Size:		Depth Well:	205 feet	Depth Water: 90 feet

Water Bearing Stratifications:	Top	Bottom	Description
	105	110	Sandstone/Gravel/Conglomerate

*UTM location was derived from PLSS - see Help


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

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

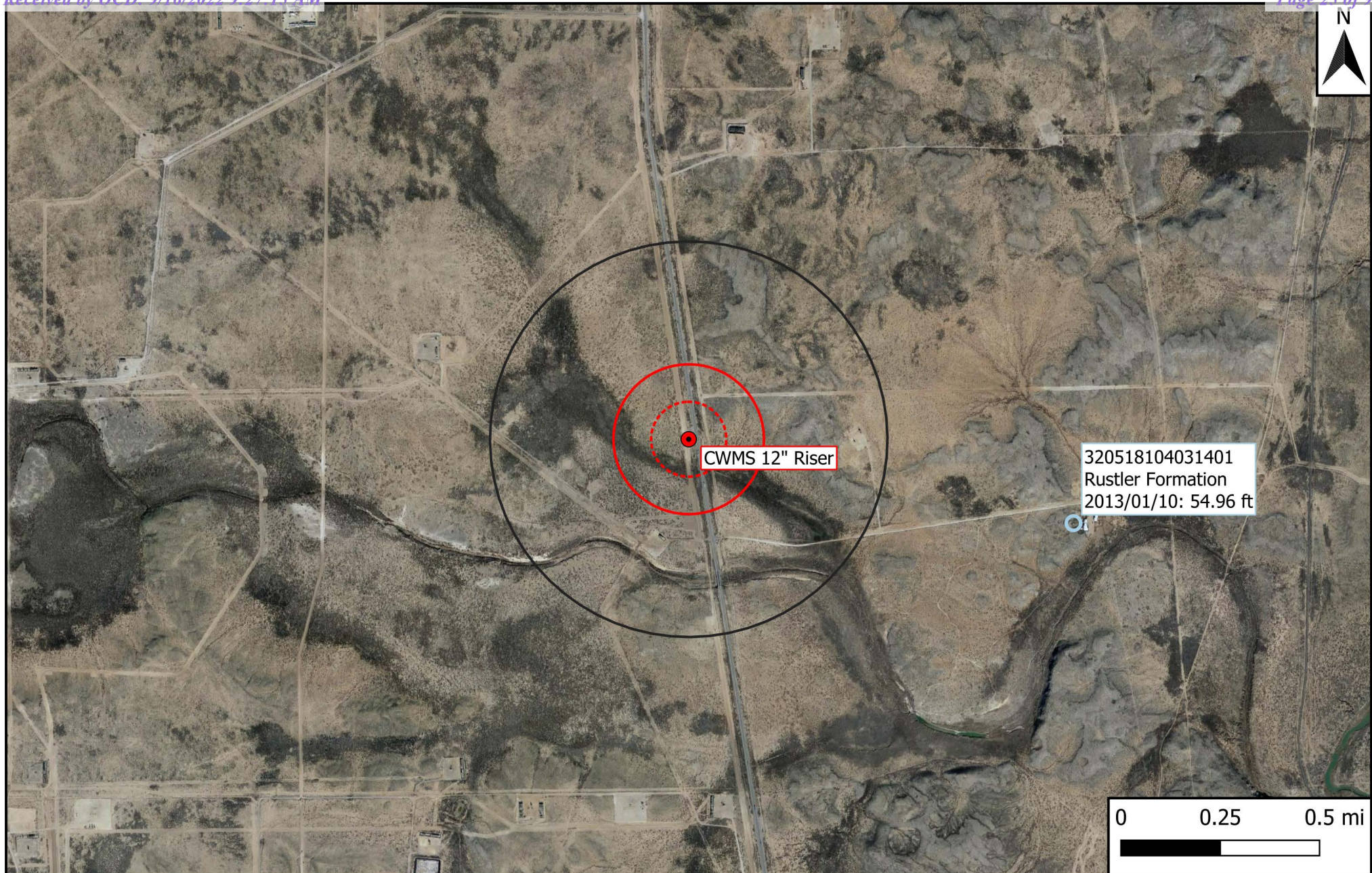
Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	01453	1	2	26	25S	28E	589096	3552612*	
<hr/>									
Driller License: 30		Driller Company:			BARRON, EMMETT				
Driller Name:		BARRON, EMMETT							
Drill Start Date: 07/17/1971		Drill Finish Date:			07/20/1971		Plug Date:		
Log File Date: 08/02/1971		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:			Estimated Yield:				
Casing Size: 6.00		Depth Well:			70 feet		Depth Water: 40 feet		
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				50	70	Shale/Mudstone/Siltstone			

*UTM location was derived from PLSS - see Help

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

POINT OF DIVERSION SUMMARY



Legend

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

Figure 5

USGS Well Proximity Map
Mewbourne Oil Company
CWMS 12" Riser
GPS: 32.091799, -104.071289
Eddy County



Drafted: bja

Checked: jwl

Date: 8/25/22



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click for News Bulletins

Groundwater levels for the Nation

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 320518104031401

Minimum number of levels = 1

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

USGS 320518104031401 25S.28E.35.2324

Eddy County, New Mexico

Latitude 32°05'19.0", Longitude 104°03'17.3" NAD83

Land-surface elevation 2,897 feet above NGVD29

The depth of the well is 180 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1982-12-08			D 72019	45.85			1	S	USGS	S	A
1987-10-14			D 72019	42.01			1	S	USGS	S	A
1998-01-23			D 72019	53.18			1	S	USGS	S	A
2003-02-10			D 72019	54.32			1	S	USGS	S	A
2013-01-10	18:00 UTC	m	72019	54.96			1	S	USGS	S	A

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)[Feedback on this web site](#)[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for USA: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-08-12 16:40:43 EDT

0.44 0.25 nadww01



Appendix B

Field Data & Soil Profile Log

Sample Log

Date: _____

Project: Carlsbad Water Management System Riser

Project Number: 14922 Latitude: 32.091769 Longitude: -104.071337

[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Soil Profile

Date: _____

Project: Carlsbad Water Management System Riser

Project Number: 14922 Latitude: 32.091769 Longitude: -104.071337

Depth (ft. bgs)	Description
1 0-1'	Caliche
2 1-3'	caliche, rock, sand
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
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33	
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40	

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: North	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: South-Southeast	
Photo Description: View of the affected area.	

Photographic Log


Photo Number: 3	 <p>26/10/2021 10:05 +32.091606,-104.071333</p>
Photo Direction: South	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>Jul 13, 2022 at 1:58:54 PM +32.091890,-104.071443 339° N Eddy County</p>
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photographic Log


Photo Number: 5	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 6	
Photo Direction: North-Northwest	
Photo Description: View of the excavated area.	

Photographic Log




Photo Number: 7	
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 8	
Photo Direction: South-Southwest	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	 <div>Jul 15, 2022 at 9:39:00 AM +32.090771,-104.071144 162° S Eddy County</div> 
Photo Direction: South-Southeast	
Photo Description: View of the excavated area.	

Photo Number: 10	 <div>Jul 15, 2022 at 9:40:18 AM +32.090700,-104.071214 73° E Eddy County</div> 
Photo Direction: East-Northeast	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 12	
Photo Direction: South-Southeast	
Photo Description: View of the remediated area after backfilling and regrading.	

Photographic Log


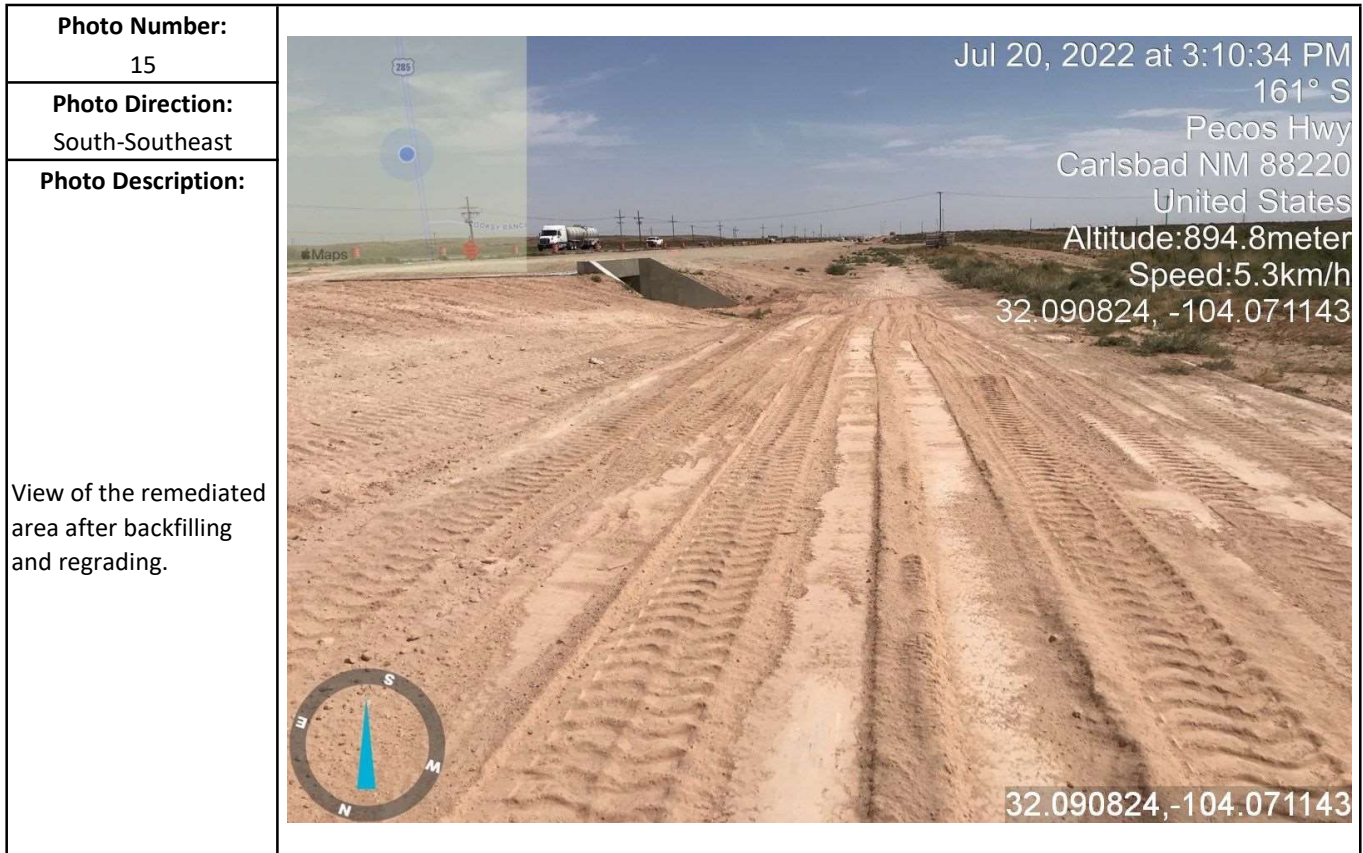
Photo Number: 13	
Photo Direction: South-Southwest	
Photo Description: View of the remediated area after backfilling and regrading.	

Photo Number: 14	
Photo Direction: North-Northwest	
Photo Description: View of the remediated area after backfilling and regrading.	

Photographic Log



Appendix D

Laboratory Analytical Reports

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

July 19, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 16:10.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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)

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



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL 1 @ 2'	H223036-01	Soil	11-Jul-22 00:00	13-Jul-22 16:10
FL 2 @ 2'	H223036-02	Soil	11-Jul-22 00:00	13-Jul-22 16:10
WW 1	H223036-03	Soil	11-Jul-22 00:00	13-Jul-22 16:10
EW 1	H223036-04	Soil	11-Jul-22 00:00	13-Jul-22 16:10
EW 2	H223036-05	Soil	12-Jul-22 00:00	13-Jul-22 16:10
WW 2	H223036-06	Soil	12-Jul-22 00:00	13-Jul-22 16:10
FL 3 @ 2'	H223036-07	Soil	12-Jul-22 00:00	13-Jul-22 16:10
FL 4 @ 2'	H223036-08	Soil	12-Jul-22 00:00	13-Jul-22 16:10
FL 5 @ 2'	H223036-09	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 6 @ 2'	H223036-10	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 7 @ 2'	H223036-11	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 8 @ 2'	H223036-12	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 9 @ 1'	H223036-13	Soil	13-Jul-22 00:00	13-Jul-22 16:10
WW 3	H223036-14	Soil	13-Jul-22 00:00	13-Jul-22 16:10
WW 4	H223036-15	Soil	13-Jul-22 00:00	13-Jul-22 16:10
EW 3	H223036-16	Soil	13-Jul-22 00:00	13-Jul-22 16:10
EW 4	H223036-17	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 10 @ 2'	H223036-18	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 11 @ 2'	H223036-19	Soil	13-Jul-22 00:00	13-Jul-22 16:10
FL 12 @ 2'	H223036-20	Soil	13-Jul-22 00:00	13-Jul-22 16:10

07/19/22 - I missed that the Toluene did not confirm on the BTEX for these samples. The BTEX has been corrected for samples -13, -14 and -20. This report will replace the one sent earlier 07/19/22.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 1 @ 2'
H223036-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 86.9 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 93.6 % 42.5-161 2071416 MS 15-Jul-22 8015B

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 2 @ 2'
H223036-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	69.9-140	2071504	JH	15-Jul-22	8021B
---------------------------------------	-------	----------	---------	----	-----------	-------

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B

Surrogate: 1-Chlorooctane	91.8 %	43-149	2071416	MS	15-Jul-22	8015B
---------------------------	--------	--------	---------	----	-----------	-------

Surrogate: 1-Chlorooctadecane	99.7 %	42.5-161	2071416	MS	15-Jul-22	8015B
-------------------------------	--------	----------	---------	----	-----------	-------

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

WW 1
H223036-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 103 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 112 % 42.5-161 2071416 MS 15-Jul-22 8015B

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

EW 1
H223036-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			90.6 %		43-149	2071416	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			97.8 %		42.5-161	2071416	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

EW 2
H223036-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	480		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 88.8 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161 2071416 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

WW 2**H223036-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 89.8 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 97.8 % 42.5-161 2071416 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 3 @ 2'
H223036-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2071504	JH	15-Jul-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B

Surrogate: 1-Chlorooctane	99.6 %	43-149	2071416	MS	15-Jul-22	8015B
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Surrogate: 1-Chlorooctadecane	111 %	42.5-161	2071416	MS	15-Jul-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 4 @ 2'
H223036-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	416		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 85.4 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 95.7 % 42.5-161 2071416 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 5 @ 2'
H223036-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2071504 JH 15-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071416	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 97.9 % 43-149 2071416 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 109 % 42.5-161 2071416 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 6 @ 2'
H223036-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			69.9 %	43-149		2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			79.2 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 7 @ 2'
H223036-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	69.9-140		2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			69.0 %	43-149		2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			74.8 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 8 @ 2'
H223036-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			125 %	69.9-140		2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			72.0 %	43-149		2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			78.6 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 9 @ 1'
H223036-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	19-Jul-22	8021B	GC-NC
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	19-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	19-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	19-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	19-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140 2071504 JH 19-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 66.9 % 43-149 2071417 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 73.2 % 42.5-161 2071417 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

WW 3**H223036-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	GC-NC
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			71.4 %	43-149		2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			76.9 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

WW 4
H223036-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2071504	JH	15-Jul-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B

Surrogate: 1-Chlorooctane	69.7 %	43-149	2071417	MS	15-Jul-22	8015B
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Surrogate: 1-Chlorooctadecane	76.2 %	42.5-161	2071417	MS	15-Jul-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

EW 3
H223036-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %		69.9-140	2071504	JH	15-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			66.3 %		43-149	2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			72.5 %		42.5-161	2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

EW 4
H223036-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	2071522	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2071504	JH	15-Jul-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2071504	JH	15-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	104 %	69.9-140	2071504	JH	15-Jul-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B

Surrogate: 1-Chlorooctane	68.0 %	43-149	2071417	MS	15-Jul-22	8015B
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Surrogate: 1-Chlorooctadecane	73.9 %	42.5-161	2071417	MS	15-Jul-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 10 @ 2'
H223036-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	2071510	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071505	JH	16-Jul-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.9-140		2071505	JH	16-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.3 %	43-149		2071417	MS	15-Jul-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			74.7 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 11 @ 2'
H223036-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	384		16.0	mg/kg	4	2071510	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071505	JH	16-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		2071505	JH	16-Jul-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane			69.6 %	43-149		2071417	MS	15-Jul-22	8015B	
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Surrogate: 1-Chlorooctadecane			76.1 %	42.5-161		2071417	MS	15-Jul-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

FL 12 @ 2'
H223036-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	480		16.0	mg/kg	4	2071510	GM	15-Jul-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	GC-NC
Toluene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2071505	JH	16-Jul-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2071505	JH	16-Jul-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140 2071505 JH 16-Jul-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2071417	MS	15-Jul-22	8015B	

Surrogate: 1-Chlorooctane 63.8 % 43-149 2071417 MS 15-Jul-22 8015B

Surrogate: 1-Chlorooctadecane 69.1 % 42.5-161 2071417 MS 15-Jul-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 2071510 - 1:4 DI Water**Blank (2071510-BLK1)**

Prepared & Analyzed: 15-Jul-22

Chloride	ND	16.0	mg/kg						
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LCS (2071510-BS1)

Prepared & Analyzed: 15-Jul-22

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (2071510-BSD1)

Prepared & Analyzed: 15-Jul-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	
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Batch 2071522 - 1:4 DI Water**Blank (2071522-BLK1)**

Prepared & Analyzed: 15-Jul-22

Chloride	ND	16.0	mg/kg						
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LCS (2071522-BS1)

Prepared & Analyzed: 15-Jul-22

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (2071522-BSD1)

Prepared & Analyzed: 15-Jul-22

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071504 - Volatiles**Blank (2071504-BLK1)**

Prepared & Analyzed: 15-Jul-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	69.9-140			

LCS (2071504-BS1)

Prepared & Analyzed: 15-Jul-22

Benzene	1.89	0.050	mg/kg	2.00		94.4	83.4-122			
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121			
m,p-Xylene	4.36	0.100	mg/kg	4.00		109	89.9-126			
o-Xylene	2.12	0.050	mg/kg	2.00		106	84.3-123			
Total Xylenes	6.48	0.150	mg/kg	6.00		108	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	69.9-140			

LCS Dup (2071504-BSD1)

Prepared & Analyzed: 15-Jul-22

Benzene	1.85	0.050	mg/kg	2.00		92.7	83.4-122	1.87	12.6	
Toluene	2.10	0.050	mg/kg	2.00		105	84.2-126	0.738	13.3	
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	84.2-121	0.554	13.9	
m,p-Xylene	4.39	0.100	mg/kg	4.00		110	89.9-126	0.637	13.6	
o-Xylene	2.15	0.050	mg/kg	2.00		107	84.3-123	1.53	14.1	
Total Xylenes	6.54	0.150	mg/kg	6.00		109	89.1-124	0.928	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	69.9-140			

Batch 2071505 - Volatiles**Blank (2071505-BLK1)**

Prepared: 15-Jul-22 Analyzed: 16-Jul-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071505 - Volatiles**Blank (2071505-BLK1)**

Prepared: 15-Jul-22 Analyzed: 16-Jul-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	69.9-140			

LCS (2071505-BS1)

Prepared & Analyzed: 15-Jul-22

Benzene	1.89	0.050	mg/kg	2.00		94.7	83.4-122			
Toluene	2.07	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89.9-126			
o-Xylene	2.08	0.050	mg/kg	2.00		104	84.3-123			
Total Xylenes	6.40	0.150	mg/kg	6.00		107	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500		107	69.9-140			

LCS Dup (2071505-BS1)

Prepared & Analyzed: 15-Jul-22

Benzene	1.84	0.050	mg/kg	2.00		92.2	83.4-122	2.71	12.6	
Toluene	2.02	0.050	mg/kg	2.00		101	84.2-126	2.53	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.7	84.2-121	1.84	13.9	
m,p-Xylene	4.20	0.100	mg/kg	4.00		105	89.9-126	2.76	13.6	
o-Xylene	2.07	0.050	mg/kg	2.00		104	84.3-123	0.590	14.1	
Total Xylenes	6.27	0.150	mg/kg	6.00		105	89.1-124	2.05	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500		105	69.9-140			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2071416 - General Prep - Organics**Blank (2071416-BLK1)**

Prepared: 14-Jul-22 Analyzed: 15-Jul-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	43.4		mg/kg	50.0		86.8	43-149		
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.3	42.5-161		

LCS (2071416-BS1)

Prepared: 14-Jul-22 Analyzed: 15-Jul-22

GRO C6-C10	182	10.0	mg/kg	200		91.0	78.5-128		
DRO >C10-C28	172	10.0	mg/kg	200		85.8	75.8-135		
Total TPH C6-C28	354	10.0	mg/kg	400		88.4	81.5-127		
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	43-149		
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	42.5-161		

LCS Dup (2071416-BS1)

Prepared: 14-Jul-22 Analyzed: 15-Jul-22

GRO C6-C10	206	10.0	mg/kg	200		103	78.5-128	12.5	21.4
DRO >C10-C28	194	10.0	mg/kg	200		97.0	75.8-135	12.2	17.9
Total TPH C6-C28	400	10.0	mg/kg	400		100	81.5-127	12.4	17.6
Surrogate: 1-Chlorooctane	57.7		mg/kg	50.0		115	43-149		
Surrogate: 1-Chlorooctadecane	59.5		mg/kg	50.0		119	42.5-161		

Batch 2071417 - General Prep - Organics**Blank (2071417-BLK1)**

Prepared: 14-Jul-22 Analyzed: 15-Jul-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	34.3		mg/kg	50.0		68.5	43-149		
Surrogate: 1-Chlorooctadecane	37.5		mg/kg	50.0		75.1	42.5-161		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CWMS RISER
Project Number: 14922
Project Manager: JOEL LOWRY
Fax To:

Reported:
19-Jul-22 14:05

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 2071417 - General Prep - Organics**LCS (2071417-BS1)**

Prepared: 14-Jul-22 Analyzed: 15-Jul-22

GRO C6-C10	155	10.0	mg/kg	200		77.5	78.5-128			BS-3
DRO >C10-C28	168	10.0	mg/kg	200		83.8	75.8-135			
Total TPH C6-C28	323	10.0	mg/kg	400		80.7	81.5-127			BS-3
Surrogate: 1-Chlorooctane	39.5		mg/kg	50.0		79.1	43-149			
Surrogate: 1-Chlorooctadecane	41.9		mg/kg	50.0		83.9	42.5-161			

LCS Dup (2071417-BSD1)

Prepared: 14-Jul-22 Analyzed: 15-Jul-22

GRO C6-C10	183	10.0	mg/kg	200		91.6	78.5-128	16.6	21.4	
DRO >C10-C28	192	10.0	mg/kg	200		95.9	75.8-135	13.4	17.9	
Total TPH C6-C28	375	10.0	mg/kg	400		93.7	81.5-127	15.0	17.6	
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	43-149			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.4	42.5-161			

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Notes and Definitions

GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 29 of 30

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Joel Lowry				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: Mowbourn																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: (575) 264-9884 Fax #: -				Address:																							
Project #: 14922 Project Owner: Mowbourn				City:																							
Project Name: CWAS Riser				State: Zip:																							
Project Location: Rural Eddy Co, NM				Phone #:																							
Sampler Name: Miguel Ramirez				Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H023036																											
1	FL1 @ 2'	G	C			X					X		7/11/22		X	X	X										
2	FL2 @ 2'																										
3	WW1																										
4	EW1																										
5	EW2												7/12/22														
6	WW2																										
7	FL3 @ 2'																										
8	FL4 @ 2'																										
9	FL5 @ 2'												7/13/22														
10	FL6 @ 2'																										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subdivision, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																											
Relinquished By: [Signature]				Date: 7-13-22		Received By: [Signature]				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: 1610						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One) 5.8i 5.0.6i				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: 5.2i #113				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) go																			

FORM-006
Revision 1.0

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 30 of 30

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>Joel Lowry</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>																			
Address: 2617 W Marland				Company: <u>Mowbourn</u>																							
City: Hobbs State: NM Zip: 88240				Attn:																							
Phone #: (575) 264-9884 Fax #:				Address:																							
Project #: <u>14922</u> Project Owner: <u>Mowbourn</u>				City:																							
Project Name: <u>Chms Riser</u>				State: Zip:																							
Project Location: <u>Rural Eddy Co. NM</u>				Phone #:																							
Sampler Name: <u>Miguel Ramirez</u>				Fax #:																							
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<u>4923036</u>																											
<u>11</u>	<u>FL7@2'</u>	<u>5</u>	<u>C</u>			<u>X</u>							<u>7/13/22</u>		<u>X</u>	<u>X</u>	<u>X</u>										
<u>12</u>	<u>FL8@2'</u>																										
<u>13</u>	<u>FL9@1'</u>																										
<u>14</u>	<u>WW3</u>																										
<u>15</u>	<u>WW4</u>																										
<u>16</u>	<u>EW3</u>																										
<u>17</u>	<u>EW4</u>																										
<u>18</u>	<u>FL10@2'</u>																										
<u>19</u>	<u>FL11@2'</u>																										
<u>20</u>	<u>FL12@2'</u>																										
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profit incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By: <u>[Signature]</u>				Date: <u>7-13-22</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:													
				Time: <u>1610</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:													
Relinquished By:				Date:		Received By:				REMARKS:																	
				Time:																							
Delivered By: (Circle One) <u>5.8°C C-0.62</u>				Sample Condition				CHECKED BY:				Please email results and copy of CoC to pm@etechenv.com.															
Sampler - UPS - Bus - Other: <u>5.2°C #113</u>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				(Initials) <u>TO</u>																			

FORM-006
Revision 1.0

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



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

July 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOMBU LAY FLAT LINE RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - FL 1 @ 4' (H223092-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 87.3 % 43-149

Surrogate: 1-Chlorooctadecane 88.2 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - FL 2 @ 4' (H223092-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 43-149

Surrogate: 1-Chlorooctadecane 89.7 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - NW 1 (H223092-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/18/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 93.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - EW 1 (H223092-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 90.0 % 43-149

Surrogate: 1-Chlorooctadecane 90.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - SW 1 (H223092-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/18/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 43-149

Surrogate: 1-Chlorooctadecane 89.2 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	MOMBU LAY FLAT LINE RELEASE	Sampling Condition:	Cool & Intact
Project Number:	14434	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: OL - WW 1 (H223092-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 43-149

Surrogate: 1-Chlorooctadecane 88.5 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Caley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>E-Tech Environmental & Safety Solutions, Inc</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Jack Lowry</u>				P.O. #:															
Address: <u>7617 Marland</u>				Company: <u>COG</u>															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>575-264-9884</u> Fax #:				Address:															
Project #: <u>14434</u> Project Owner: <u>COG</u>				City:															
Project Name: <u>Mombu Lay Flat Line Release</u>				State: Zip:															
Project Location: <u>Rural Eddy co, NM</u>				Phone #:															
Sampler Name: <u>Miguel Kandra</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(GRAB OR C/COMP. # CONTAINERS)		MATRIX			PRESERV.		SAMPLING		Chlorides BTEX TPH						
<u>H223092</u>		<u>OL-FL10 4' - NW</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>7/15/22</u>		<u>X</u>						
<u>1</u>		<u>OL-FL2 4' - NW</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>X</u>		<u>X</u>						
<u>2</u>		<u>OL-NW1</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>X</u>		<u>X</u>						
<u>3</u>		<u>OL-EW1</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>X</u>		<u>X</u>						
<u>4</u>		<u>OL-SW1</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>X</u>		<u>X</u>						
<u>5</u>		<u>OL-NW1</u>		<u>C</u>		<u>X</u>			<u>X</u>		<u>X</u>		<u>X</u>						
<u>6</u>																			

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Relinquished By: <u>[Signature]</u>		Date: <u>7-15-22</u>		Received By: <u>[Signature]</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>1245</u>		Time: <u>1245</u>		Time: <u>1245</u>		All Results are emailed. Please provide Email address:	
Relinquished By: <u>[Signature]</u>		Date: <u>7-15-22</u>		Received By: <u>[Signature]</u>		REMARKS: <u>pm@efechenv.com</u>	
Time: <u>1245</u>		Time: <u>1245</u>		Time: <u>1245</u>		Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition	
Delivered By: (Circle One)		Observed Temp. °C <u>3.9</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>3.3</u>		CHECKED BY: (initials) <u>TO</u>		Thermometer ID #113 Correction Factor 0.5°C <u>Rush!</u>	
						Corrected Temp. °C	

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to coley.klene@cardinallabnm.com



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

July 18, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: CWMS RISER

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 12:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/13/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: NW 1 (H223093-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTEX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 43-149

Surrogate: 1-Chlorooctadecane 94.1 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: WW 5 (H223093-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87	
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57	
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06	
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144	
Total BTX	<0.300	0.300	07/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 43-149

Surrogate: 1-Chlorooctadecane 93.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: EW 5 (H223093-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	07/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.9 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 13 @ 1' (H223093-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 43-149

Surrogate: 1-Chlorooctadecane 82.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 14 @ 1' (H223093-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	07/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 43-149

Surrogate: 1-Chlorooctadecane 87.7 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 15 @ 1' (H223093-06)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 43-149

Surrogate: 1-Chlorooctadecane 84.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 16 @ 1' (H223093-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 43-149

Surrogate: 1-Chlorooctadecane 93.8 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 17 @ 1' (H223093-08)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	1.99	99.5	2.00	2.87		
Toluene*	<0.050	0.050	07/15/2022	ND	2.09	104	2.00	2.57		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.12	106	2.00	1.06		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.46	108	6.00	0.144		
Total BTX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 91.2 % 43-149

Surrogate: 1-Chlorooctadecane 93.4 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 18 @ 1' (H223093-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/15/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.57	109	6.00	4.74		
Total BTEx	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	07/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 95.5 % 43-149

Surrogate: 1-Chlorooctadecane 94.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/15/2022	Sampling Date:	07/14/2022
Reported:	07/18/2022	Sampling Type:	Soil
Project Name:	CWMS RISER	Sampling Condition:	Cool & Intact
Project Number:	14922	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE - RURAL EDDY CO., NM		

Sample ID: FL 19 @ 1' (H223093-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/15/2022	ND	2.04	102	2.00	7.42		
Toluene*	<0.050	0.050	07/15/2022	ND	2.13	106	2.00	6.64		
Ethylbenzene*	<0.050	0.050	07/15/2022	ND	2.16	108	2.00	5.71		
Total Xylenes*	<0.150	0.150	07/15/2022	ND	6.57	109	6.00	4.74		
Total BTEX	<0.300	0.300	07/15/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	07/18/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/16/2022	ND	234	117	200	8.36	
DRO >C10-C28*	<10.0	10.0	07/16/2022	ND	244	122	200	1.01	
EXT DRO >C28-C36	<10.0	10.0	07/16/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 43-149

Surrogate: 1-Chlorooctadecane 88.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1. f

Page 13 of 13

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST											
Project Manager: Jack Lowry				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>											
Address: 2617 W Marland				Company: Newbourne															
City: Hobbs		State: NM		Zip: 88240		Attn:													
Phone #: (575) 264-9884		Fax #:		Address:		City:													
Project #: 14922		Project Owner: Newbourne		State:		Zip:													
Project Name: Crows River		Project Location: Rural Eddy Co, NM		Phone #:		Fax #:													
Sampler Name: Miguel Ramirez																			
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME			
H223093																			
1	NWI							X							7/13/22				
2	WWS														7/14/22				
3	EW5																		
4	FL 13 @ 1'																		
5	FL 14 @ 1'																		
6	FL 15 @ 1'																		
7	FL 16 @ 1'																		
8	FL 17 @ 1'																		
9	FL 18 @ 1'																		
10	FL 19 @ 1'																		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 7-15-22	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1245		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Rush Please	

Delivered By: (Circle One) 3.9c C-0.6c

Sampler - UPS - Bus - Other: 3.3c #113

Sample Condition: Cool ☒ Intact ☒
☐ Yes ☐ Yes
☐ No ☐ No

CHECKED BY: (Initials) JS

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

Appendix E

Regulatory Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Lance Crenshaw](#); [Robbie Runnels](#); [Bratcher, Mike, EMNRD](#); [Hensley, Chad, EMNRD](#); [Velez, Nelson, EMNRD](#); [Joel Lowry](#); [Connor Walker](#); [Nobui, Jennifer, EMNRD](#)
Subject: (Extension Approval) nAPP2128043375 - CWMS 12" Riser
Date: Monday, April 18, 2022 6:22:18 AM
Attachments: [image003.png](#)

RE: Incident #NAPP2128043375

Ben,

Your request for an extension to **July 31st, 2022** is approved. Please keep us updated on the progress of the ongoing road/bridge construction activities. Also, please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <bena@etechenv.com>
Sent: Friday, April 8, 2022 4:18 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Lance Crenshaw <lance@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>; Joel Lowry <joel@etechenv.com>; Connor Walker <cwalker@mewbourne.com>
Subject: [EXTERNAL] RE: (Extension Approval) nAPP2128043375 - CWMS 12" Riser

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

As my colleague, Lance Crenshaw, explained in his email to you earlier, Etech revisited the CWMS 12" Riser site (NMOCID Incident #nAPP2128043375) today and found that access to the area affected by the release is still restricted due to ongoing road/bridge construction activities (see attached photographs).

In consideration of this situation, Etech, on behalf of Mewbourne, would like to request an

additional extension until July 31, 2022, in order to allow time for the road/bridge construction activities to be completed and to give Etech time to fully delineate the release and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me or Lance.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Monday, December 27, 2021 11:08 AM
To: Ben Arguijo <ben@etechenv.com>
Cc: Lance Crenshaw <lance@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>;
Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD
<Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: (Extension Approval) nAPP2128043375 - CWMS 12" Riser

RE: Incident #**NAPP2128043375**

Ben,

Your request for an extension to **April 15th, 2022** is approved.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Ben Arguijo <ben@etechenv.com>

Sent: Wednesday, December 22, 2021 12:10 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>

Cc: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; ocd.environmental@state.nm.us; Lance Crenshaw <lance@etechenv.com>; Robbie Runnels <rrunnels@mewbourne.com>

Subject: [EXTERNAL] nAPP2128043375 - CWMS 12" Riser - Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company (Mewbourne) has contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities for the release known as the CWMS 12" Riser (NMOCD Incident #nAPP2128043375) located in Eddy County. Pursuant to NMOCD regulations, a work plan or closure report is due for the release on December 26, 2021.

The subject release occurred along a stretch of US Highway 285 undergoing expansion and bridge construction (see attached "Affected Area Map"). Access to the release site is currently restricted due to the presence of a road construction work crew encampment and staging facility at/near the point of release and along a significant portion of the affected area.

In consideration of this information, Etech, on behalf of Mewbourne, would like to request an extension until April 15, 2022, in order to allow time for the road/bridge construction activities to be completed and to give Etech time afterwards to conduct a proper site assessment, fully delineate the release, and devise an appropriate remediation strategy to advance the site to an NMOCD-approved closure.

If you have any questions or need any additional information, please do not hesitate to contact me by phone or email.

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



2507 79th St., Unit A
Lubbock, TX 79423-2211
(432) 813-1592

From: [Lance Crenshaw](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Connor Walker](#); [Robbie Runnels](#); [Ben Arguijo](#)
Subject: Excavation Confirmation Sampling Notice for napp2128043375
Date: Tuesday, July 19, 2022 11:03:07 AM

This email serves as notice that Etech intends to collect excavation confirmation soil samples from the following locations/reportable release sites:

Mewbourne Oil Co – Carlsbad Water Management System 12” Riser– napp2128043375

If you have any questions or need any additional information, please contact Lance Crenshaw by phone (575-631-2532) or email (lance@etechenv.com).

Thank you and have a great day.

Lance Crenshaw
Etech Environmental & Safety Solutions
575-631-2532

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

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

CONDITIONS

Action 144064

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 144064
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/13/2022