

Incident ID	nAPP2122432744
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?	35 (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.

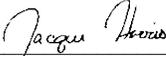
State of New Mexico
Oil Conservation Division

Page 4

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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: Jacqui Harris Title: Sr. Environmental Engineer

Signature:  Date: 2.4.22

email: Jacqui.Harris@conocophillips.com Telephone: (575) 745-1807

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2122432744
District RP	
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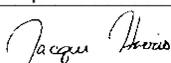
Closure

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: Jacqui Harris Title: Sr. Environmental Engineer
 Signature:  Date: 2.4.22
 email: Jacqui.Harris@conocophillips.com Telephone: (575) 745-1807

OCD Only

Received by: _____ Date: _____

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

Closure Approved by:  Date: 02/16/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

COG Operating, LLC

Mossy Federal 001H

Eddy County, New Mexico

Unit Letter "A", Section 12, Township 20 South, Range 29 East

Latitude 32.59244 North, Longitude 104.02173 West

NMOCD Reference No. nAPP2122432744

Prepared By:

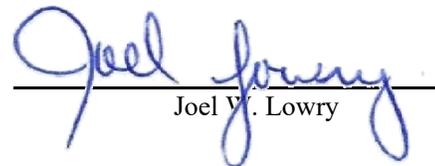
Etech Environmental & Safety Solutions, Inc.

2507 79th Street, Unit A

Lubbock, Texas 79423



Ben J. Arguijo



Joel V. Lowry



Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

	<i>Section</i>
PROJECT INFORMATION.....	1.0
SITE CHARACTERIZATION.....	2.0
CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE.....	3.0
INITIAL SITE ASSESSMENT.....	4.0
REMEDIATION ACTIVITIES SUMMARY.....	5.0
RESTORATION, RECLAMATION & RE-VEGETATION PLAN.....	6.0
SOIL CLOSURE REQUEST.....	7.0
LIMITATIONS.....	8.0
DISTRIBUTION.....	9.0

FIGURES

- Figure 1 - Topographic Map
- Figure 2 - Aerial Proximity Map
- Figure 3 - Site & Sample Location Map

TABLES

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

APPENDICES

- Appendix A - Depth to Groundwater Information
- Appendix B - Laboratory Analytical Reports
- Appendix C - Photographic Log

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Mossy Federal 001H. Details of the release are summarized below:

Location of Release Source				
Latitude:	32.592440	Longitude:	-104.02173	
Provided GPS are in WGS84 format.				
Site Name: Mossy Federal 001H	Site Type: Tank Battery			
Date Release Discovered: 7/30/2021	API # (if applicable): 30-015-42735			
Unit Letter	Section	Township	Range	County
"A"	12	20S	29E	Eddy
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	0.25	Volume Recovered (bbls)	0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	0.25	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) Pipeline Liquids	Volume/Weight Released	Volume/Weight Recovered		
Cause of Release: The release was caused by an inlet separator that overfilled, closing the inlet valve, and causing the line to pressure up and leak fluid from the hammer union. Also, filling the flare line with fluid, causing it to push out the flare. The release resulted in a flare fire on the pad. No fluid was recovered due to the fire burning off any standing fluid.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices <input checked="" type="checkbox"/> 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 Mossy Federal 001H 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?	<u>35'</u>	
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 Mossy Federal 001H release site are as follows:

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria*†	Reclamation Standard*‡
35'	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 INITIAL SITE ASSESSMENT

On September 7, 2021, Etech conducted an initial site assessment. During the site assessment, three (3) hand-augered soil bores (SP 1 V, SP 2 V, and SP 3 V) were advanced within the inferred margins of the affected area in an effort to determine the vertical extent of impacted soil. In addition, four (4) hand-augered soil bores (NH, EH, SH, and WH) were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of impacted soil. During the advancement of the hand-augered soil bores, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data, a total of 14 delineation soil samples (NH @ Surf., NH @ 1', EH @ Surf., EH @ 1', SH @ Surf., SH @ 1', WH @ Surf., WH @ 1', SP 1 V @ Surf., SP 1 V @ 1', SP 2 V @ Surf., SP 2 V @ 2', SP 3 V @ Surf., and SP 3 V @ 2') were submitted to a certified commercial laboratory for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results, the horizontal and vertical extent of impacted soil was adequately defined, and soil was not affected above the NMOCD Closure Criteria beyond two (2) feet below ground surface (bgs) in the areas characterized by sample points SP 2 V and SP 3 V.

The locations of the hand-augered soil bores are depicted in Figure 3, "Site & Sample Location Map". Soil chemistry data is summarized in Table 1. Laboratory analytical reports are provided in Appendix B. General photographs of the release site are provided in Appendix C.

5.0 REMEDIATION ACTIVITIES SUMMARY

On January 21, 2022, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a Hach Quantab® chloride test kit were utilized to field-screen the vertical and horizontal extent of impacted soil and to guide the excavation. The sidewalls and floor of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria.

On January 24, 2022, Etech collected 12 confirmation soil samples (EW 1, EW 2, SW 1, SW 2, WW 2, F 1 @ 1', F 3 @ 1', F 4 @ 1', F 7 @ 1', F 8 @ 1', F 9 @ 1', and F 11 @ 1') 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 concentrations were below both the NMOCD Closure Criterion and the laboratory method detection limit (MDL) in each of the submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in soil samples EW 1, SW 1, F 3 @ 1', and F 7 @ 1' to 6,790 mg/kg in soil sample F 11 @ 1'. TPH concentrations in soil samples EW 2, WW 2, F 8 @ 1', F 9 @ 1', and F 11 @ 1' exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 48.0 mg/kg in soil samples EW 1 and EW 2 to 720 mg/kg in soil sample SW 2, which exceeded the NMOCD Closure Criterion.

On January 25, 2022, Etech collected 13 confirmation soil samples (NW 1, EW 3, WW 1, WW 3, F 2 @ 1', F 5 @ 1', F 6 @ 1', F 10 @ 1', and F 12 @ 1' through F 16 @ 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 and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples F 2 @ 1' and F 16 @ 1' to 625 mg/kg in soil sample WW 1, which exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 32.0 mg/kg in soil samples F 2 @ 1' and F 16 @ 1' to 160 mg/kg in soil sample F 5 @ 1'.

On January 27, 2022, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples EW 2, SW 2, WW1, WW 2, F 8 @ 1', F 9 @ 1', and F 11 @ 1'. Etech collected seven (7) confirmation soil samples (EW 2B, SW 2B, WW 1B, WW 2B, F 8 @ 2', F 9 @ 2', and F 11 @ 2') from the sidewalls and floor of the newly excavated

areas. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria in each of the submitted soil samples. BTEX concentrations were also below the laboratory MDL. TPH concentrations ranged from less than the laboratory MDL in soil samples SW 2B, WW 1B, WW 2B, F 8 @ 2', and F 11 @ 2' to 141 mg/kg in soil sample F 9 @ 2', which exceeded the NMOCD Closure Criterion. Chloride concentrations ranged from 32.0 mg/kg in soil samples WW 1B and F 11 @ 2' to 176 mg/kg in soil sample EW 2B.

On January 28, 2022, based on laboratory analytical results, the excavation was further advanced in the area characterized by soil sample F 9 @ 2'. Etech collected one (1) confirmation soil samples (F 9 @ 3') from the floor of the newly excavated area. The soil sample was submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated the TPH concentration was below both the NMOCD Closure Criterion and the laboratory MDL.

The final dimensions of the excavated area were approximately 88 feet in length, 12 to 78 feet in width, and one (1) to three (3) feet in depth. During the course of remediation activities, approximately 180 cubic yards of impacted soil were transported to an NMOCD-permitted surface waste facility for disposal. Approximately 160 cubic yards of locally sourced, non-impacted material were imported 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. Laboratory analytical reports are provided in Appendix B. General photographs of the release site are provided in Appendix C.

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 contoured and/or compacted 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 free of noxious weeds 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 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/or NMOCD Reclamation Standards.

Based on laboratory analytical results and field activities conducted to date, Etech recommends COG provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Mossy Federal 001H release site.

8.0 LIMITATIONS

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

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

9.0 DISTRIBUTION

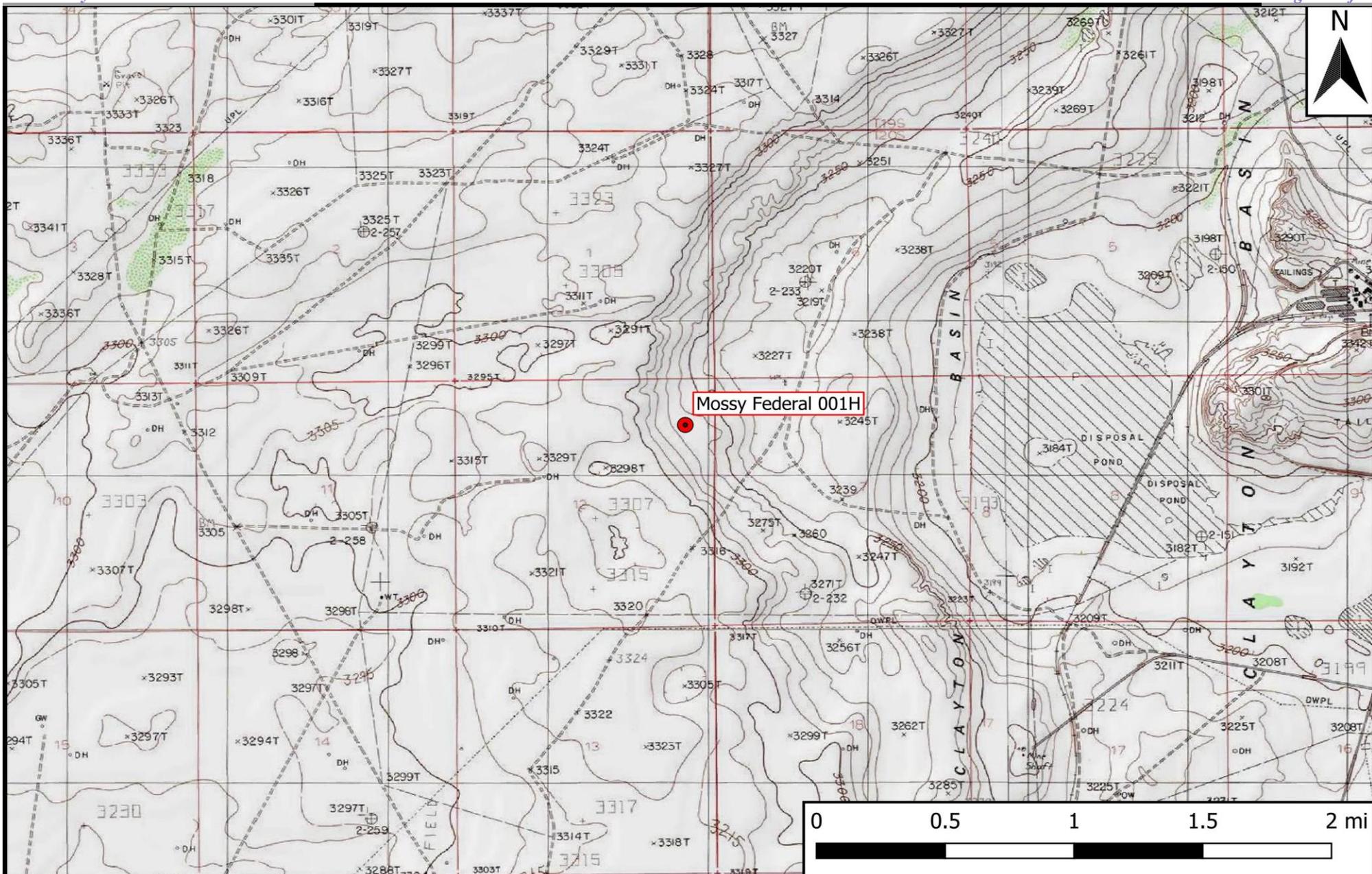
COG Operating, LLC
600 West Illinois Avenue
Midland, TX 79701

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

United States Department of the Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

(Electronic Submission)

Figure 1 Topographic Map



Legend
 ● Site Location

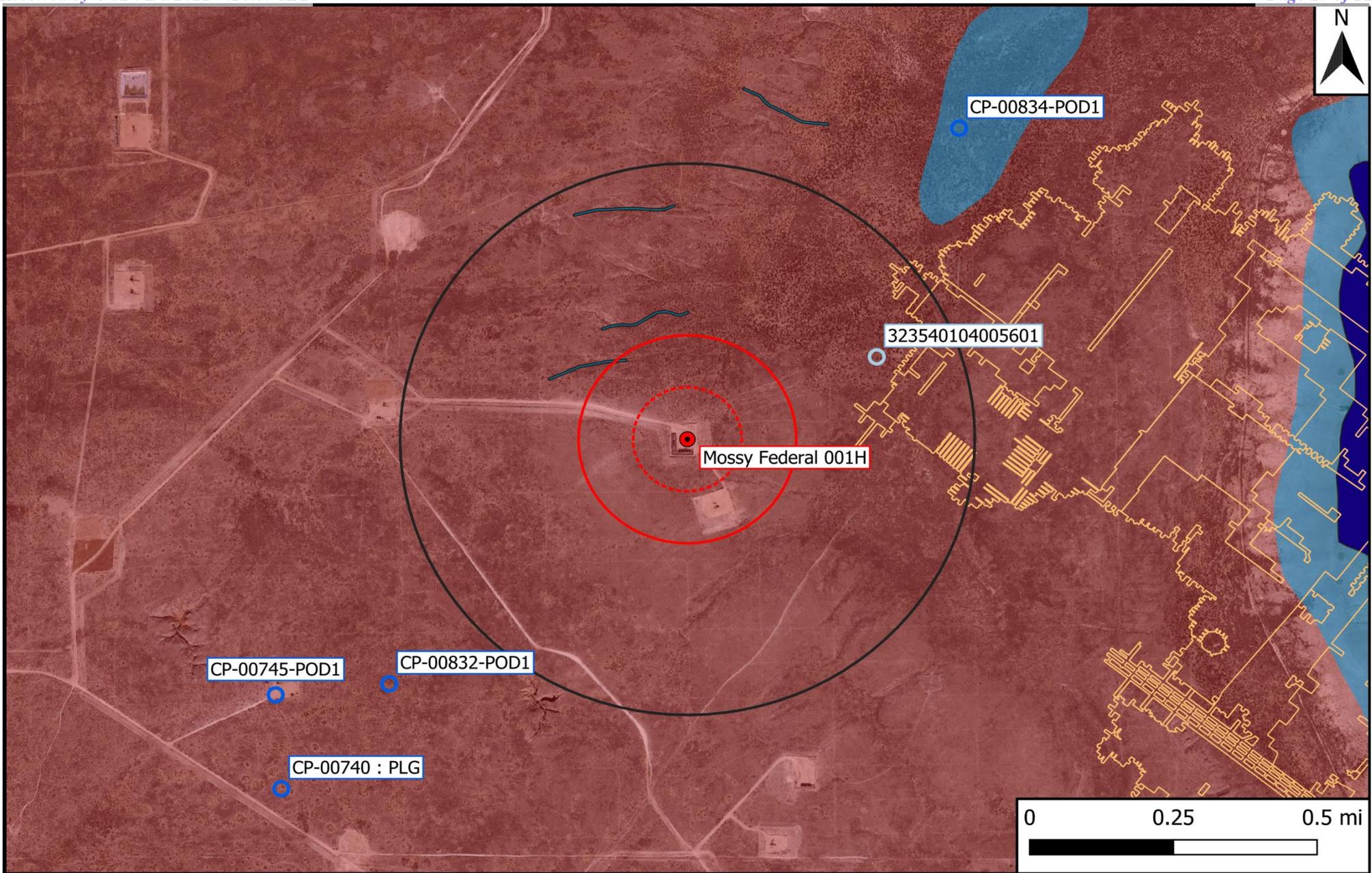
Figure 1
 Topographic Map
 COG Operating, LLC
 Mossy Federal 001H
 GPS: 32.59244, -104.02173
 Eddy County



Drafted: mag Checked: jwl Date: 8/27/21

Figure 2

Aerial Proximity Map



Legend		
Site Location	1% Annual Flood Chance	500-Ft Radius
Well - NMOSE	Emergent/Forested Wetlands	1,000 Ft Radius
Well - USGS	Freshwater Pond/Lake	0.5-Mi Radius
Well - Exploratory/Monitor	Medium/High Karst	
Potash Mine Workings	River/ine	

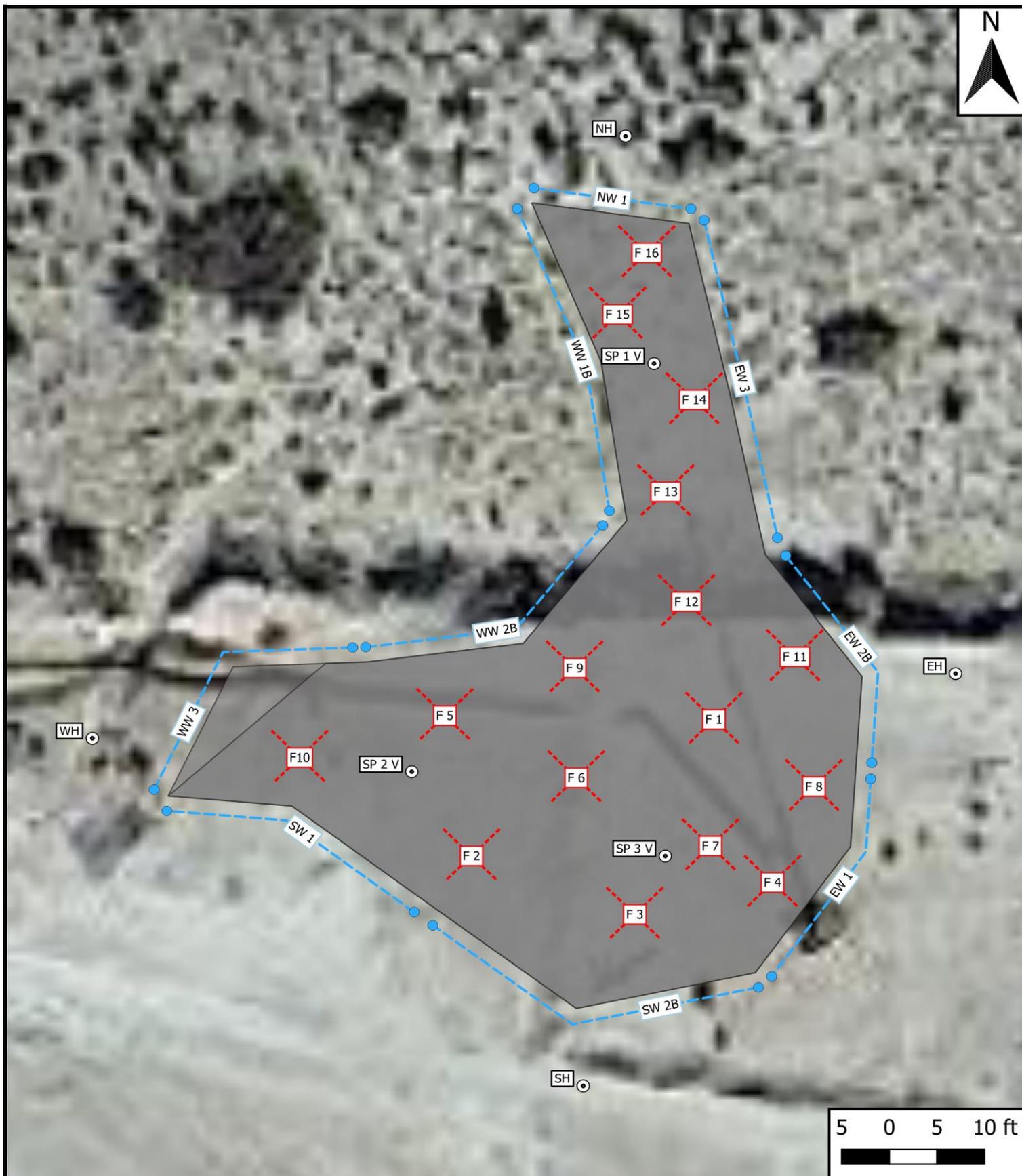
Figure 2
 Aerial Proximity Map
 COG Operating, LLC
 Mossy Federal 001H
 GPS: 32.59244, -104.02173
 Eddy County

eTECH
 Environmental & Safety Solutions, Inc.

Drafted: bja Checked: jwl Date: 1/28/22

Figure 3

Site & Sample Location Map



Legend	
	Excavated Area
	Auger Hole
	Composite Floor Sample
	Composite Wall Sample

Figure 3
 Site & Sample Location Map
 COG Operating, LLC
 Mossy Federal 001H
 GPS: 32.59244, -104.02173
 Eddy County



Environmental & Safety Solutions, Inc.

Drafted: bja
 Checked: jwl Date: 2/1/22

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Mossy Federal 001H NMOCD Ref. #: nAPP2122432744												
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)	
NH @ Surf.	9/7/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
NH @ 1'	9/7/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
EH @ Surf.	9/7/2021	0	Excavated	<0.050	<0.300	<10.0	84.4	84.4	51.4	136	32.0	
EH @ 1'	9/7/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0	
SH @ Surf.	9/7/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
SH @ 1'	9/7/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208	
WH @ Surf.	9/7/2021	0	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
WH @ 1'	9/7/2021	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0	
SP 1 V @ Surf.	9/7/2021	0	Excavated	<0.050	<0.300	<10.0	656	656	407	1,060	32.0	
SP 1 V @ 1'	9/7/2021	1	In-Situ	<0.050	<0.300	<10.0	52.5	52.5	18.5	71.0	48.0	
SP 2 V @ Surf.	9/7/2021	0	Excavated	<0.050	<0.300	<10.0	2,380	2,380	1,300	3,680	192	
SP 2 V @ 2'	9/7/2021	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
SP 3 V @ Surf.	9/7/2021	0	Excavated	<0.050	<0.300	<10.0	928	928	344	1,270	224	
SP 3 V @ 2'	9/7/2021	2	In-Situ	<0.050	<0.300	<10.0	22.5	22.5	20.0	42.5	144	
NW 1	1/25/2022	0-1	In-Situ	<0.050	<0.300	<10.0	55.2	55.2	<10.0	55.2	64.0	
EW 1	1/24/2022	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
EW 2	1/24/2022	0-2	Excavated	<0.050	<0.300	<10.0	465	465	94.3	559	48.0	
EW 2B	1/27/2022	0-2	In-Situ	<0.050	<0.300	<10.0	67.3	67.3	13.8	81.1	176	
EW 3	1/25/2022	0-1	In-Situ	<0.050	<0.300	<10.0	60.3	60.3	<10.0	60.3	80.0	
SW 1	1/24/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192	
SW 2	1/24/2022	0-1	Excavated	<0.050	<0.300	<10.0	27.8	27.8	<10.0	27.8	720	
SW 2B	1/27/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0	
WW 1	1/25/2022	0-1	Excavated	<0.050	<0.300	<10.0	517	517	108	625	48.0	
WW 1B	1/27/2022	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
WW 2	1/24/2022	0-3	Excavated	<0.050	<0.300	<10.0	635	635	182	817	64.0	
WW 2B	1/27/2022	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0	
WW 3	1/25/2022	0-1	In-Situ	<0.050	<0.300	<10.0	34.2	34.2	<10.0	34.2	128	
F 1 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	42.3	42.3	<10.0	42.3	64.0	
F 2 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
F 3 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304	
F 4 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	12.0	12.0	<10.0	12.0	304	
F 5 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	31.0	31.0	19.6	50.6	160	
F 6 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	29.3	29.3	<10.0	29.3	64.0	
F 7 @ 1'	1/24/2022	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112	
F 8 @ 1'	1/24/2022	1	Excavated	<0.050	<0.300	<10.0	585	585	32.0	617	64.0	
F 8 @ 2'	1/27/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0	
F 9 @ 1'	1/24/2022	1	Excavated	<0.050	<0.300	<10.0	4,500	4,500	810	5,310	128	
F 9 @ 2'	1/27/2022	2	Excavated	<0.050	<0.300	<10.0	115	115	26.4	141	112	
F 9 @ 3'	1/28/2022	3	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-	
F 10 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	26.7	26.7	<10.0	26.7	64.0	
F 11 @ 1'	1/24/2022	1	Excavated	<0.050	<0.300	<10.0	5,790	5,790	1,000	6,790	96.0	

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

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

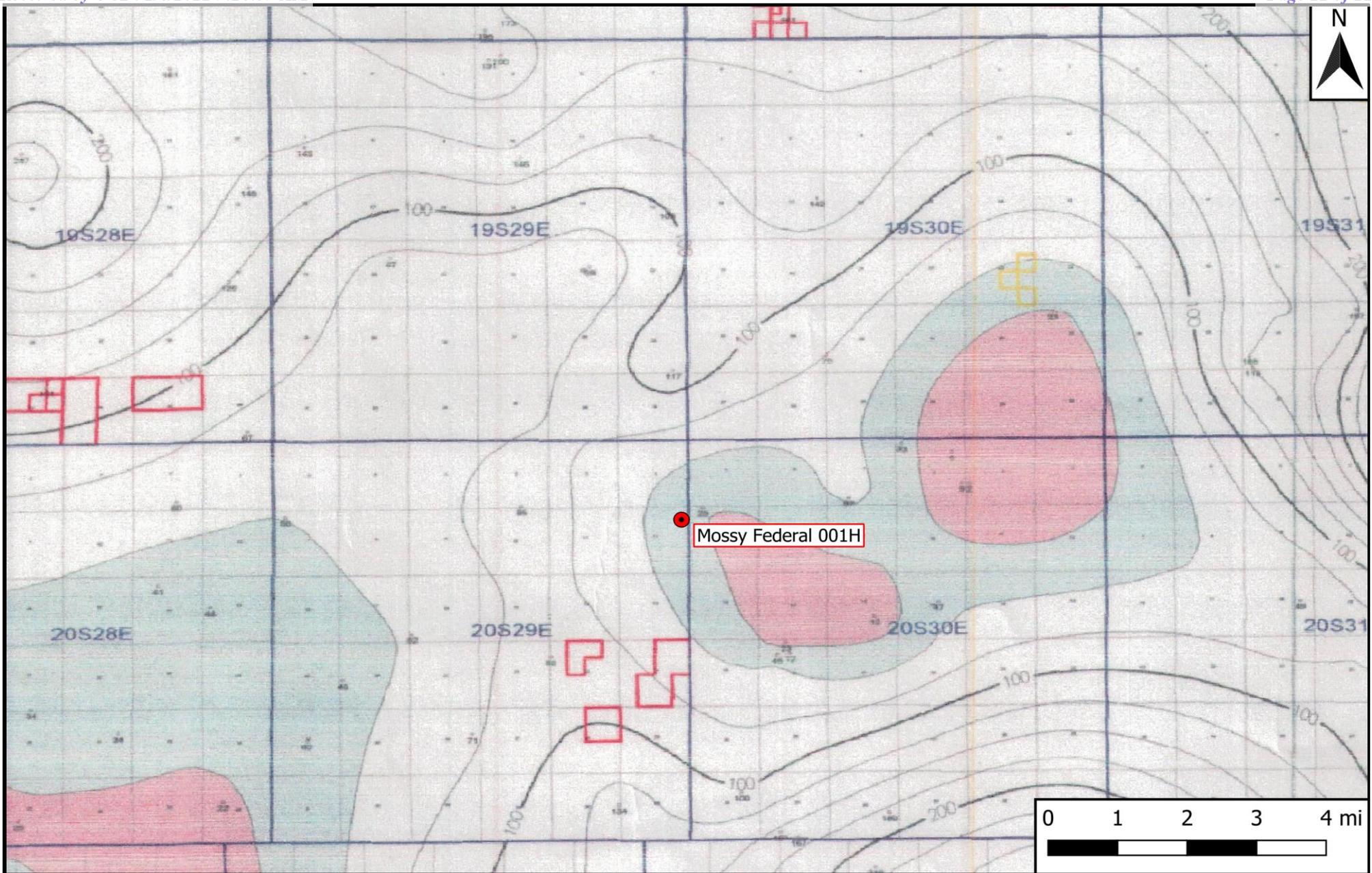
Table 1 Concentrations of BTEX, TPH & Chloride in Soil COG Operating, LLC Mossy Federal 001H NMOCD Ref. #: nAPP2122432744												
NMOCD Closure Criteria				10	50	N/A	N/A	N/A	N/A	100	600	
NMOCD Reclamation Standard				10	50	N/A	N/A	N/A	N/A	100	600	
Sample ID	Date	Depth (Feet)	Soil Status	SW 846 8021B		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)	
F 11 @ 2'	1/27/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0	
F 12 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	68.2	68.2	13.4	81.6	96.0	
F 13 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	29.2	29.2	<10.0	29.2	48.0	
F 14 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	26.9	26.9	<10.0	26.9	80.0	
F 15 @ 1'	1/25/2022	1	In-Situ	<0.050	<0.300	<10.0	43.0	43.0	11.5	54.5	64.0	
F 16 @ 1'	1/25/2022	1	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
COG Operating, LLC
Mossy Federal 001H
GPS: 32.59244, -104.02173
Eddy County



Drafted: bja Checked: jwl Date: 1/31/22



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 Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Well Depth	Average Depth to Water	Minimum Depth	Maximum Depth	Water Column
CP 00832 POD1	CP	LE	LE	2	3	12	20S	29E	590971	3605815*		1098	200	--	--	--	
CP 00834 POD1	CP	LE	LE	2	3	06	20S	30E	592566	3607436*		1183	120	--	--	--	
CP 00745 POD1	CP	ED	ED	4	1	3	12	20S	29E	590653	3605782		1372	232	--	--	
CP 00740	CP	ED	ED	2	3	3	12	20S	29E	590669	3605509*		1526	150	--	--	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 591805.63

Northing (Y): 3606528.47

Radius: 1610
(1 mile)

*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.

2/1/22 11:35 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP 00832	POD1	2	3	12	20S	29E	590971	3605815*	

Driller License: 122	Driller Company: UNKNOWN	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 50 GPM
Casing Size: 7.00	Depth Well: 200 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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2/1/22 11:37 AM

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
	CP 00834 POD1	2	3	06	20S	30E	592566	3607436*	

Driller License: 122	Driller Company: UNKNOWN	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 20 GPM
Casing Size: 7.00	Depth Well: 120 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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2/1/22 11:38 AM

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
CP 00745	POD1	4 1 3	12	20S	29E	590653	3605782

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN, CLARK A."CORKY" (LD)		
Drill Start Date: 12/09/1989	Drill Finish Date: 12/09/1989	Plug Date:
Log File Date: 12/19/1989	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 150 GPM
Casing Size: 6.63	Depth Well: 232 feet	Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	179	219	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	172	232

Meter Number: 8512	Meter Make: MASTER
Meter Serial Number: 22523455	Meter Multiplier: 100.0000
Number of Dials: 6	Meter Type: Diversion
Unit of Measure: Gallons	Return Flow Percent:
Usage Multiplier:	Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
09/23/2003	2003	43554	A	jw		0
11/26/2003	2003	53304	A	jw		2.992
01/16/2004	2004	63504	A	jw		3.130
03/17/2004	2004	73274	A	jw		2.998
12/13/2004	2004	24507	A	jw		0
02/14/2005	2005	24507	A	RPT		0
04/01/2014	2014	259422	A	RPT		72.093
07/01/2014	2014	352320	A	RPT		28.509
10/01/2014	2014	397139	A	RPT		13.754
12/31/2014	2014	475726	A	RPT		24.117
01/01/2015	2015	475726	A	RPT		0
02/01/2015	2015	508908	A	RPT		10.183
03/02/2015	2015	531256	A	RPT		6.858
04/01/2015	2015	531256	A	RPT		0
04/30/2015	2015	551252	A	RPT		6.137
05/20/2015	2015	559787	A	RPT		2.619
05/20/2015	2015	0	A	ap		0
05/31/2015	2015	18300	A	RPT	changeout meter 5-20-15	5.616
07/01/2015	2015	953891	A	RPT		287.122
08/01/2015	2015	214780	R	RPT	Meter Rollover	80.064

08/31/2015	2015	394667	A	RPT	55.205
10/01/2015	2015	424720	A	RPT	9.223
01/01/2016	2016	691212	A	RPT	81.783
02/01/2016	2016	705826	A	RPT	4.485
02/01/2016	2016	0	A	ap	0
03/02/2016	2016	246634	A	RPT Meter changeout 2-1-16	75.689
04/01/2016	2016	247766	A	RPT	0.347
05/01/2016	2016	264860	A	RPT	5.246
06/01/2016	2016	268161	A	RPT	1.013
07/01/2016	2016	441400	A	RPT	53.165

x

**YTD Meter Amounts:	Year	Amount
	2003	2.992
	2004	6.128
	2005	0
	2014	138.473
	2015	463.027
	2016	221.728

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2/1/22 11:38 AM

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
CP 00740		2	3	3	12	20S	29E	590669	3605509*

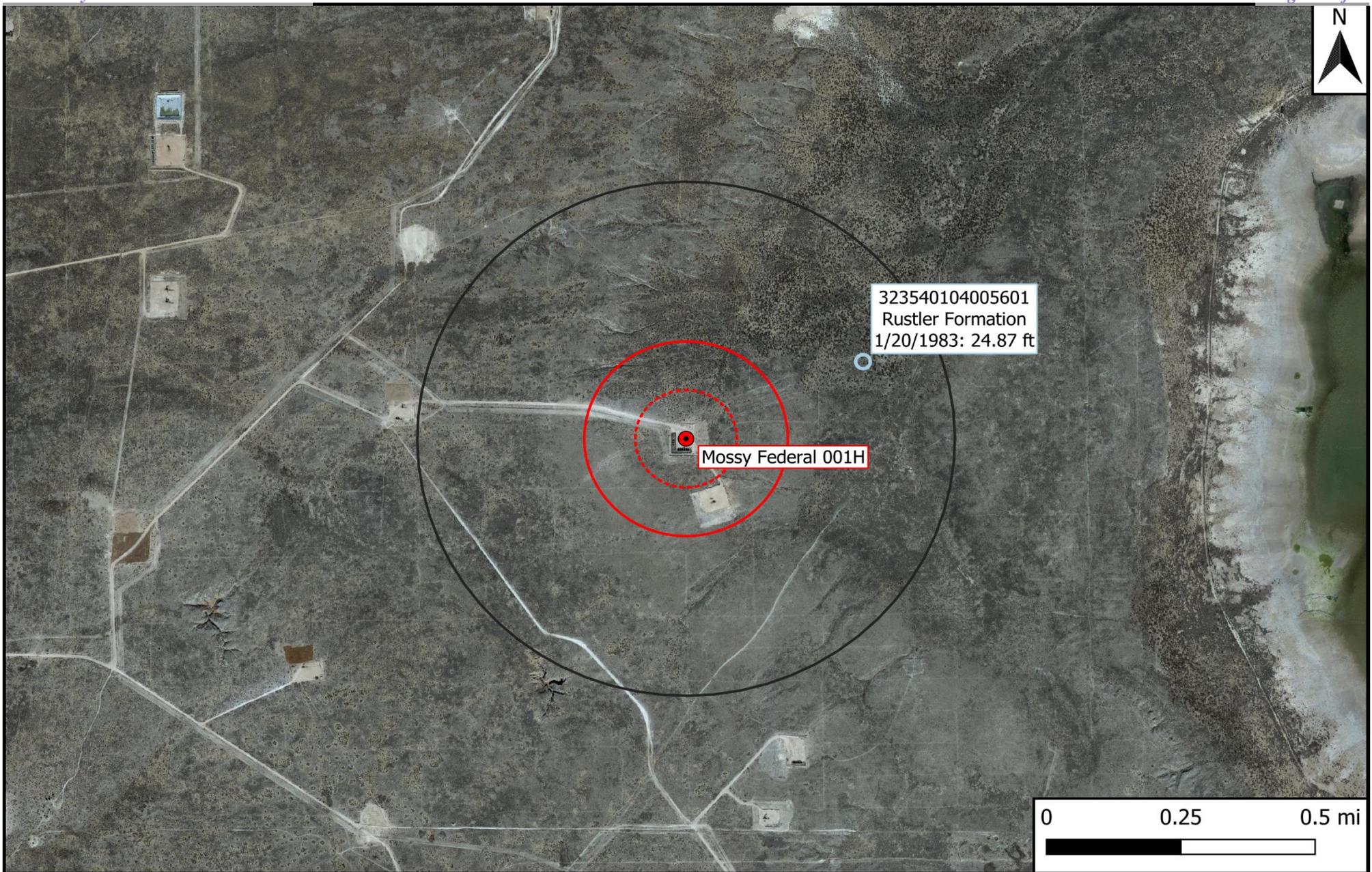
Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: ABBOTT, MURRELL		
Drill Start Date: 02/14/1989	Drill Finish Date: 02/19/1989	Plug Date: 02/27/1989
Log File Date: 03/02/1989	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well: 150 feet	Depth Water:

*UTM location was derived from PLSS - see Help

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

2/1/22 11:39 AM

POINT OF DIVERSION SUMMARY



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

Figure 5
 USGS Well Proximity Map
 COG Operating, LLC
 Mossy Federal 001H
 GPS: 32.59244, -104.02173
 Eddy County



Drafted: bja Checked: jwl Date: 1/31/22



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

20S.30E.07.11221



IMPORTANT [Classic Inventory Page](#)

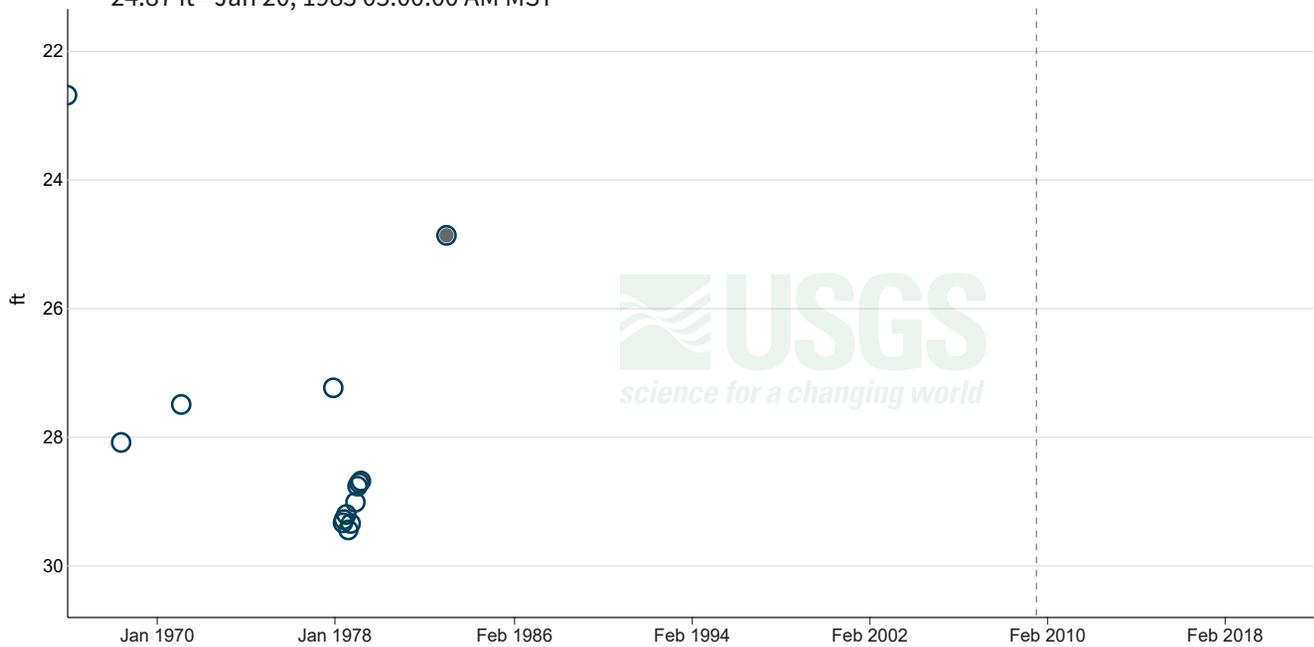
Monitoring location 323540104005601 is associated with a WELL in EDDY COUNTY, NEW MEXICO. Water data back to 1965 are available online.

1 year 10 years Period of record

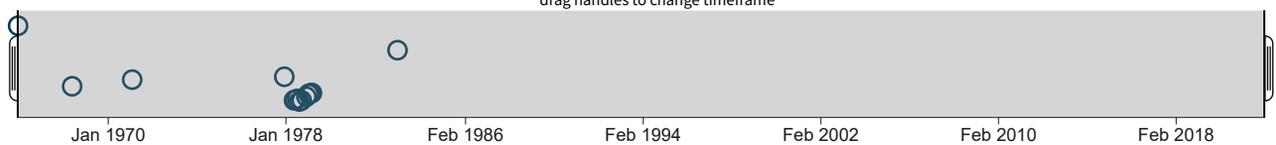
Change time span | **Retrieve data**

Depth to water level, ft below land surface

24.87 ft - Jan 20, 1983 05:00:00 AM MST



drag handles to change timeframe



Field visit: Approved

Compare to last year

Display median

IMPORTANT Data may be provisional - [lear](#)

Questions or Comments

Select Data to Graph

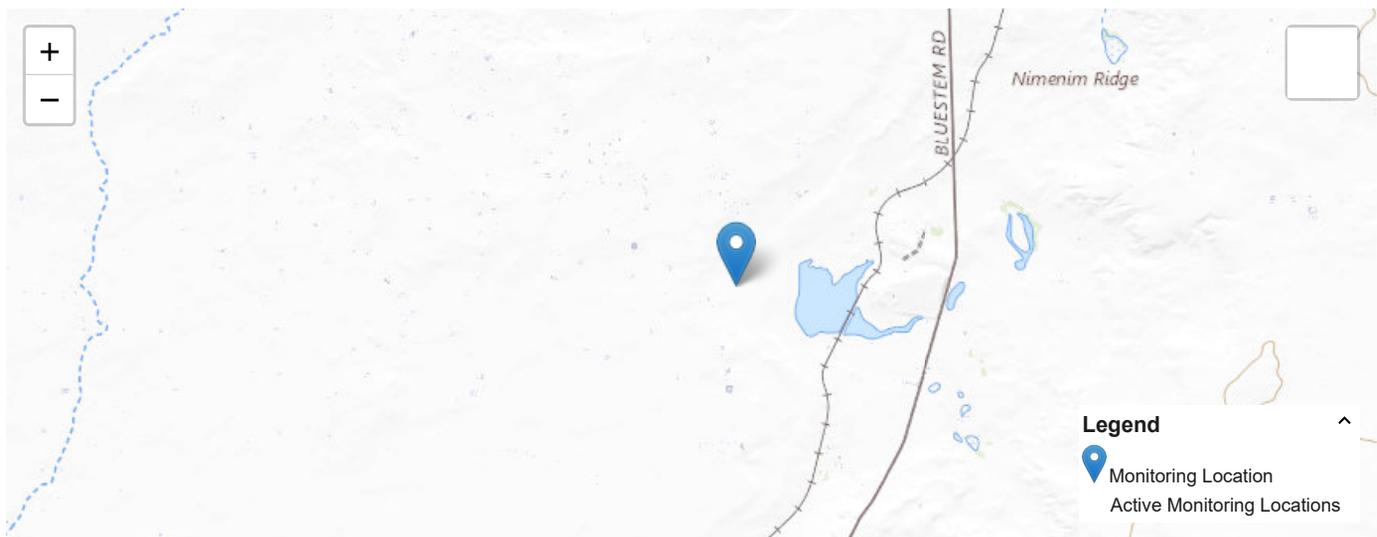
<input checked="" type="radio"/> Depth to water level, feet below land surface	1965-12-20 to 1983-01-20
<input type="radio"/> Groundwater level above NAVD 1988, feet	1965-12-20 to 1983-01-20
<input type="radio"/> Groundwater level above NGVD 1929, feet	1965-12-20 to 1983-01-20

Hydrograph data table(s)

Groundwater Data BETA

Why don't I see a groundwater graph?

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



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

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

Affiliated Networks BETA

[NWIS Monitoring Locations](#)

Summary of All Available Data

Location Metadata

DOI Privacy Policy | Legal | Accessibility | Site Map | Contact USGS Follow

U.S. Department of the Interior | DOI Inspector General | White House | E-gov | No Fear Act | FOIA

Appendix B

Laboratory Analytical Reports



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

September 13, 2021

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOSSY FEDERAL 001H

Enclosed are the results of analyses for samples received by the laboratory on 09/07/21 16:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NH @ SURFACE	H212443-11	Soil	07-Sep-21 10:30	07-Sep-21 16:58
NH @ 1'	H212443-12	Soil	07-Sep-21 10:30	07-Sep-21 16:58
EH @ SURFACE	H212443-13	Soil	07-Sep-21 10:30	07-Sep-21 16:58
EH @ 1'	H212443-14	Soil	07-Sep-21 11:00	07-Sep-21 16:58
SH @ SURFACE	H212443-15	Soil	07-Sep-21 11:00	07-Sep-21 16:58
SH @ 1'	H212443-16	Soil	07-Sep-21 11:00	07-Sep-21 16:58
WH @ SURFACE	H212443-17	Soil	07-Sep-21 11:00	07-Sep-21 16:58
WH @ 1'	H212443-18	Soil	07-Sep-21 11:15	07-Sep-21 16:58
SP 1 V @ SURFACE	H212443-19	Soil	07-Sep-21 11:15	07-Sep-21 16:58
SP 1 V @ 1'	H212443-20	Soil	07-Sep-21 11:15	07-Sep-21 16:58
SP 2 V @ SURFACE	H212443-21	Soil	07-Sep-21 14:00	07-Sep-21 16:58
SP 2 V @ 2'	H212443-22	Soil	07-Sep-21 14:00	07-Sep-21 16:58
SP 3 V @ SURFACE	H212443-23	Soil	07-Sep-21 14:00	07-Sep-21 16:58
SP 3 V @ 2'	H212443-24	Soil	07-Sep-21 14:00	07-Sep-21 16:58

Cardinal Laboratories

* = Accredited Analyte

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

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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
---	--	------------------------------

**NH @ SURFACE
H212443-11 (Soil)**

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

Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	1090821	GM	09-Sep-21	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		1090812	ms	09-Sep-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	

Surrogate: 1-Chlorooctane			103 %	44.3-133		1090902	CK	09-Sep-21	8015B	
---------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			97.4 %	38.9-142		1090902	CK	09-Sep-21	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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

NH @ 1'
H212443-12 (Soil)

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

Chloride	16.0		16.0	mg/kg	4	1090821	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	

Surrogate: 1-Chlorooctane			96.2 %	44.3-133		1090902	CK	09-Sep-21	8015B	
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Surrogate: 1-Chlorooctadecane			89.1 %	38.9-142		1090902	CK	09-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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EH @ SURFACE

H212443-13 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	1090821	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
DRO >C10-C28*	84.4		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
EXT DRO >C28-C36	51.4		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	44.3-133		1090902	CK	09-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.4 %	38.9-142		1090902	CK	09-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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**EH @ 1'
H212443-14 (Soil)**

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	1090821	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090902	CK	09-Sep-21	8015B	

Surrogate: 1-Chlorooctane			98.9 %	44.3-133		1090902	CK	09-Sep-21	8015B	
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Surrogate: 1-Chlorooctadecane			91.9 %	38.9-142		1090902	CK	09-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SH @ SURFACE

H212443-15 (Soil)

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SH @ 1'
H212443-16 (Soil)

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

Inorganic Compounds

Chloride	208		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.4 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.3 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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WH @ SURFACE

H212443-17 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

WH @ 1'
H212443-18 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.5 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			99.6 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SP 1 V @ SURFACE

H212443-19 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	656		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	407		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

Surrogate: 1-Chlorooctane			101 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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Surrogate: 1-Chlorooctadecane			119 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

SP 1 V @ 1'
H212443-20 (Soil)

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

Chloride	48.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	52.5		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	18.5		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SP 2 V @ SURFACE

H212443-21 (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	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

S-04

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	2380		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	1300		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			95.1 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			172 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SP 2 V @ 2'
H212443-22 (Soil)

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090812	ms	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090812	ms	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		1090812	ms	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.4 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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SP 3 V @ SURFACE

H212443-23 (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	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090901	MS	09-Sep-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		1090901	MS	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	928		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	344		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

Surrogate: 1-Chlorooctane			93.0 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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Surrogate: 1-Chlorooctadecane			131 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

SP 3 V @ 2'
H212443-24 (Soil)

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

Chloride	144		16.0	mg/kg	4	1090909	GM	09-Sep-21	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1090901	MS	09-Sep-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1090901	MS	09-Sep-21	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	69.9-140		1090901	MS	09-Sep-21	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
DRO >C10-C28*	22.5		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	
EXT DRO >C28-C36	20.0		10.0	mg/kg	1	1090903	MS	10-Sep-21	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	44.3-133		1090903	MS	10-Sep-21	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	38.9-142		1090903	MS	10-Sep-21	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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1090821 - 1:4 DI Water										
Blank (1090821-BLK1) Prepared & Analyzed: 08-Sep-21										
Chloride	ND	16.0	mg/kg							
LCS (1090821-BS1) Prepared & Analyzed: 08-Sep-21										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (1090821-BSD1) Prepared & Analyzed: 08-Sep-21										
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 1090909 - 1:4 DI Water										
Blank (1090909-BLK1) Prepared & Analyzed: 09-Sep-21										
Chloride	ND	16.0	mg/kg							
LCS (1090909-BS1) Prepared & Analyzed: 09-Sep-21										
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (1090909-BSD1) Prepared & Analyzed: 09-Sep-21										
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

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 1090812 - Volatiles**Blank (1090812-BLK1)**

Prepared: 08-Sep-21 Analyzed: 09-Sep-21

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)	0.0531		mg/kg	0.0500		106	69.9-140			

LCS (1090812-BS1)

Prepared: 08-Sep-21 Analyzed: 09-Sep-21

Benzene	2.10	0.050	mg/kg	2.00		105	85.1-114			
Toluene	2.21	0.050	mg/kg	2.00		110	88.6-116			
Ethylbenzene	2.19	0.050	mg/kg	2.00		110	84.4-115			
m,p-Xylene	4.43	0.100	mg/kg	4.00		111	85.5-116			
o-Xylene	2.24	0.050	mg/kg	2.00		112	85.2-111			BS-3
Total Xylenes	6.67	0.150	mg/kg	6.00		111	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0533		mg/kg	0.0500		107	69.9-140			

LCS Dup (1090812-BSD1)

Prepared: 08-Sep-21 Analyzed: 09-Sep-21

Benzene	2.00	0.050	mg/kg	2.00		100	85.1-114	4.82	12.6	
Toluene	2.06	0.050	mg/kg	2.00		103	88.6-116	6.70	13.3	
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	84.4-115	7.66	13.9	
m,p-Xylene	4.09	0.100	mg/kg	4.00		102	85.5-116	8.13	13.6	
o-Xylene	2.06	0.050	mg/kg	2.00		103	85.2-111	8.25	14.1	
Total Xylenes	6.15	0.150	mg/kg	6.00		102	86.2-113	8.17	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500		102	69.9-140			

Batch 1090901 - Volatiles**Blank (1090901-BLK1)**

Prepared & Analyzed: 09-Sep-21

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



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

Analytical Results For:

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

Project: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

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 1090901 - Volatiles**Blank (1090901-BLK1)**

Prepared & Analyzed: 09-Sep-21

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0504		mg/kg	0.0500		101	69.9-140			

LCS (1090901-BS1)

Prepared & Analyzed: 09-Sep-21

Benzene	1.80	0.050	mg/kg	2.00		90.2	85.1-114			
Toluene	1.99	0.050	mg/kg	2.00		99.4	88.6-116			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.7	84.4-115			
m,p-Xylene	3.99	0.100	mg/kg	4.00		99.8	85.5-116			
o-Xylene	1.93	0.050	mg/kg	2.00		96.3	85.2-111			
Total Xylenes	5.92	0.150	mg/kg	6.00		98.6	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0490		mg/kg	0.0500		98.0	69.9-140			

LCS Dup (1090901-BSD1)

Prepared & Analyzed: 09-Sep-21

Benzene	1.92	0.050	mg/kg	2.00		95.9	85.1-114	6.14	12.6	
Toluene	2.11	0.050	mg/kg	2.00		105	88.6-116	5.81	13.3	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	84.4-115	6.04	13.9	
m,p-Xylene	4.21	0.100	mg/kg	4.00		105	85.5-116	5.29	13.6	
o-Xylene	2.04	0.050	mg/kg	2.00		102	85.2-111	5.92	14.1	
Total Xylenes	6.25	0.150	mg/kg	6.00		104	86.2-113	5.49	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.7	69.9-140			

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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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
13-Sep-21 15:30

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
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Batch 1090902 - General Prep - Organics**Blank (1090902-BLK1)**

Prepared & Analyzed: 09-Sep-21

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	54.8		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	38.9-142			

LCS (1090902-BS1)

Prepared & Analyzed: 09-Sep-21

GRO C6-C10	204	10.0	mg/kg	200		102	83.4-129			
DRO >C10-C28	211	10.0	mg/kg	200		106	79.3-136			
Total TPH C6-C28	415	10.0	mg/kg	400		104	85.3-130			
Surrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	44.3-133			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	38.9-142			

LCS Dup (1090902-BSD1)

Prepared & Analyzed: 09-Sep-21

GRO C6-C10	200	10.0	mg/kg	200		100	83.4-129	1.67	12.6	
DRO >C10-C28	206	10.0	mg/kg	200		103	79.3-136	2.25	12.1	
Total TPH C6-C28	407	10.0	mg/kg	400		102	85.3-130	1.96	11.6	
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	44.3-133			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	38.9-142			

Batch 1090903 - General Prep - Organics**Blank (1090903-BLK1)**

Prepared: 09-Sep-21 Analyzed: 10-Sep-21

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	46.8		mg/kg	50.0		93.6	44.3-133			
Surrogate: 1-Chlorooctadecane	45.3		mg/kg	50.0		90.6	38.9-142			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 13-Sep-21 15:30
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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
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Batch 1090903 - General Prep - Organics

LCS (1090903-BS1)		Prepared: 09-Sep-21 Analyzed: 10-Sep-21								
GRO C6-C10	207	10.0	mg/kg	200		103	83.4-129			
DRO >C10-C28	211	10.0	mg/kg	200		105	79.3-136			
Total TPH C6-C28	417	10.0	mg/kg	400		104	85.3-130			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	44.3-133			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	38.9-142			

LCS Dup (1090903-BSD1)		Prepared: 09-Sep-21 Analyzed: 10-Sep-21								
GRO C6-C10	208	10.0	mg/kg	200		104	83.4-129	0.803	12.6	
DRO >C10-C28	208	10.0	mg/kg	200		104	79.3-136	1.24	12.1	
Total TPH C6-C28	416	10.0	mg/kg	400		104	85.3-130	0.224	11.6	
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	44.3-133			
Surrogate: 1-Chlorooctadecane	49.2		mg/kg	50.0		98.4	38.9-142			

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																																																																								
Project Manager:		P.O. #:		<table border="1"> <tr><td>Chloride</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>TPH (8015M)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>BTEX (8021B)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										Chloride																					TPH (8015M)																					BTEX (8021B)																				
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Address: P.O. Box 301		Company: COG																																																																										
City: Hobbs State: NM Zip: 88240		Attn: Jacqui Horns																																																																										
Phone #: (575) 396-2378 Fax #: (575) 396-1429		Address:																																																																										
Project #: 14763 Project Owner:		City:																																																																										
Project Name: mossy Federal colt		State: Zip:																																																																										
Project Location: Co G		Phone #:																																																																										
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FOR LAB USE ONLY																																																																												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESEV.	SAMPLING																																																																				
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11	NH@ SURF					X				X			9-7-21	10:30 AM	X	X	X																																																											
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17	WH@ SURF					X				X			9-7-21	11:00 AM	X	X	X																																																											
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						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		J.D.																																																																				



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

January 26, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOSSY FEDERAL 001H

Enclosed are the results of analyses for samples received by the laboratory on 01/25/22 8:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 1 @ 1' (H220271-01)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79	
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/26/2022	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	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	42.3	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2022
 Reported: 01/26/2022
 Project Name: MOSSY FEDERAL 001H
 Project Number: 14763
 Project Location: COG - EDDY CO NM

Sampling Date: 01/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 3 @ 1' (H220271-02)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79	
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/26/2022	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	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/25/2022
 Reported: 01/26/2022
 Project Name: MOSSY FEDERAL 001H
 Project Number: 14763
 Project Location: COG - EDDY CO NM

Sampling Date: 01/24/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 4 @ 1' (H220271-03)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	2.10	105	2.00	8.79	
Toluene*	<0.050	0.050	01/25/2022	ND	2.03	101	2.00	8.09	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	2.01	100	2.00	8.43	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	6.09	101	6.00	6.51	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/26/2022	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	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	12.0	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 7 @ 1' (H220271-04)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/26/2022	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	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 82.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.8 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 8 @ 1' (H220271-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/26/2022	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	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	585	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	32.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 86.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 9 @ 1' (H220271-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72		
DRO >C10-C28*	4500	10.0	01/25/2022	ND	173	86.7	200	5.57		
EXT DRO >C28-C36	810	10.0	01/25/2022	ND						

Surrogate: 1-Chlorooctane 85.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 998 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 11 @ 1' (H220271-07)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72		
DRO >C10-C28*	5790	10.0	01/25/2022	ND	173	86.7	200	5.57		
EXT DRO >C28-C36	1000	10.0	01/25/2022	ND						

Surrogate: 1-Chlorooctane 97.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 1260 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW 1 (H220271-08)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77		
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46		
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0		
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80		
Total BTEX	<0.300	0.300	01/25/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/26/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72		
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	173	86.7	200	5.57		
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND						

Surrogate: 1-Chlorooctane 74.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 68.4 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: SW 2 (H220271-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	27.8	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: WW 2 (H220271-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	635	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	182	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 133 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EW 1 (H220271-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	<10.0	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	<10.0	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.4 % 59.5-142

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Analytical Results For:

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

Received:	01/25/2022	Sampling Date:	01/24/2022
Reported:	01/26/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EW 2 (H220271-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2022	ND	1.94	97.1	2.00	9.77	
Toluene*	<0.050	0.050	01/25/2022	ND	1.87	93.6	2.00	9.46	
Ethylbenzene*	<0.050	0.050	01/25/2022	ND	1.89	94.7	2.00	10.0	
Total Xylenes*	<0.150	0.150	01/25/2022	ND	5.75	95.9	6.00	9.80	
Total BTEX	<0.300	0.300	01/25/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/26/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/25/2022	ND	185	92.6	200	4.72	
DRO >C10-C28*	465	10.0	01/25/2022	ND	173	86.7	200	5.57	
EXT DRO >C28-C36	94.3	10.0	01/25/2022	ND					

Surrogate: 1-Chlorooctane 71.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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January 27, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOSSY FEDERAL 001H

Enclosed are the results of analyses for samples received by the laboratory on 01/26/22 9:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 2 @ 1' (H220300-01)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04		
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/27/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44		
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	193	96.6	200	3.75		
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND						

Surrogate: 1-Chlorooctane 74.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 66.7 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 5 @ 1' (H220300-02)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	31.0	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	19.6	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 69.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 62.7 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 6 @ 1' (H220300-03)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	29.3	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 83.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 10 @ 1' (H220300-04)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	26.7	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 70.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 63.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 12 @ 1' (H220300-05)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2022	ND	210	105	200	3.44	
DRO >C10-C28*	68.2	10.0	01/27/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	13.4	10.0	01/27/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.0 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2022
 Reported: 01/27/2022
 Project Name: MOSSY FEDERAL 001H
 Project Number: 14763
 Project Location: COG - EDDY CO NM

Sampling Date: 01/25/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: F 13 @ 1' (H220300-06)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	29.2	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 79.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 14 @ 1' (H220300-07)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04		
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94		
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26		
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41		
Total BTEX	<0.300	0.300	01/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/27/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44		
DRO >C10-C28*	26.9	10.0	01/26/2022	ND	193	96.6	200	3.75		
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND						

Surrogate: 1-Chlorooctane 85.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.9 % 59.5-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 15 @ 1' (H220300-08)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	43.0	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	11.5	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 82.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 16 @ 1' (H220300-09)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	<10.0	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 68.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: NW 1 (H220300-10)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/27/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	55.2	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 85.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.1 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: WW 1 (H220300-11)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/27/2022	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	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	517	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	108	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 78.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: WW 3 (H220300-12)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/27/2022	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	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	34.2	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2022	Sampling Date:	01/25/2022
Reported:	01/27/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: EW 3 (H220300-13)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2022	ND	2.04	102	2.00	6.04	
Toluene*	<0.050	0.050	01/26/2022	ND	1.97	98.4	2.00	5.94	
Ethylbenzene*	<0.050	0.050	01/26/2022	ND	1.94	96.9	2.00	6.26	
Total Xylenes*	<0.150	0.150	01/26/2022	ND	5.81	96.9	6.00	6.41	
Total BTEX	<0.300	0.300	01/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/27/2022	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	01/26/2022	ND	210	105	200	3.44	
DRO >C10-C28*	60.3	10.0	01/26/2022	ND	193	96.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	01/26/2022	ND					

Surrogate: 1-Chlorooctane 79.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager



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

January 28, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOSSY FEDERAL 001H

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 13:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F 8 @ 2'	H220322-01	Soil	27-Jan-22 00:00	27-Jan-22 13:08
F 9 @ 2'	H220322-02	Soil	27-Jan-22 00:00	27-Jan-22 13:08
F 11 @ 2'	H220322-03	Soil	27-Jan-22 00:00	27-Jan-22 13:08
WW 1 B	H220322-04	Soil	27-Jan-22 00:00	27-Jan-22 13:08
WW 2 B	H220322-05	Soil	27-Jan-22 00:00	27-Jan-22 13:08
EW 2 B	H220322-06	Soil	27-Jan-22 00:00	27-Jan-22 13:08
SW 2 B	H220322-07	Soil	27-Jan-22 00:00	27-Jan-22 13:08

01/28/22 - Client clarified the sample IDs for -04 and -05. This is the revised report and it will replace the one sent earlier 01/28/22.

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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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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F 8 @ 2'
H220322-01 (Soil)

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

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	

Surrogate: 1-Chlorooctane			113 %	66.9-136		2012710	MS	27-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	59.5-142		2012710	MS	27-Jan-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: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
28-Jan-22 10:40

F 9 @ 2'**H220322-02 (Soil)**

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

Chloride	112		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	
DRO >C10-C28*	115		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	
EXT DRO >C28-C36	26.4		10.0	mg/kg	1	2012710	MS	27-Jan-22	8015B	

Surrogate: 1-Chlorooctane			109 %	66.9-136		2012710	MS	27-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			121 %	59.5-142		2012710	MS	27-Jan-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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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F 11 @ 2'
H220322-03 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			117 %	66.9-136		2012710	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			122 %	59.5-142		2012710	MS	28-Jan-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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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**WW 1 B
H220322-04 (Soil)**

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %	66.9-136		2012710	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %	59.5-142		2012710	MS	28-Jan-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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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**WW 2 B
H220322-05 (Soil)**

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	66.9-136		2012710	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %	59.5-142		2012710	MS	28-Jan-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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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**EW 2 B
H220322-06 (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	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
DRO >C10-C28*	67.3		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	13.8		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	

Surrogate: 1-Chlorooctane			106 %	66.9-136		2012710	MS	28-Jan-22	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	59.5-142		2012710	MS	28-Jan-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: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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**SW 2 B
H220322-07 (Soil)**

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

Inorganic Compounds

Chloride	64.0		16.0	mg/kg	4	2012808	GM	28-Jan-22	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2012715	MS/	27-Jan-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2012715	MS/	27-Jan-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	69.9-140		2012715	MS/	27-Jan-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2012710	MS	28-Jan-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.0 %	66.9-136		2012710	MS	28-Jan-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.0 %	59.5-142		2012710	MS	28-Jan-22	8015B	
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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2012808 - 1:4 DI Water										
Blank (2012808-BLK1)										
Prepared & Analyzed: 28-Jan-22										
Chloride	ND	16.0	mg/kg							
LCS (2012808-BS1)										
Prepared & Analyzed: 28-Jan-22										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (2012808-BSD1)										
Prepared & Analyzed: 28-Jan-22										
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	

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

Analytical Results For:

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

Project: MOSSY FEDERAL 001H
Project Number: 14763
Project Manager: JOEL LOWRY
Fax To:

Reported:
28-Jan-22 10:40

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 2012715 - Volatiles**Blank (2012715-BLK1)**

Prepared & Analyzed: 27-Jan-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)	0.0505		mg/kg	0.0500		101	69.9-140			

LCS (2012715-BS1)

Prepared & Analyzed: 27-Jan-22

Benzene	2.03	0.050	mg/kg	2.00		102	85.1-114			
Toluene	1.97	0.050	mg/kg	2.00		98.3	88.6-116			
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	84.4-115			
m,p-Xylene	3.93	0.100	mg/kg	4.00		98.1	85.5-116			
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	85.2-111			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.8	86.2-113			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.7	69.9-140			

LCS Dup (2012715-BSD1)

Prepared & Analyzed: 27-Jan-22

Benzene	2.13	0.050	mg/kg	2.00		107	85.1-114	4.81	12.6	
Toluene	2.06	0.050	mg/kg	2.00		103	88.6-116	4.83	13.3	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	84.4-115	5.07	13.9	
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	85.5-116	5.50	13.6	
o-Xylene	2.04	0.050	mg/kg	2.00		102	85.2-111	5.08	14.1	
Total Xylenes	6.19	0.150	mg/kg	6.00		103	86.2-113	5.36	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0479		mg/kg	0.0500		95.8	69.9-140			

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Analytical Results For:

Etech Environmental & Safety Solutions 2617 W MARLAND HOBBS NM, 88240	Project: MOSSY FEDERAL 001H Project Number: 14763 Project Manager: JOEL LOWRY Fax To:	Reported: 28-Jan-22 10:40
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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
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Batch 2012710 - General Prep - Organics

Blank (2012710-BLK1)		Prepared & Analyzed: 27-Jan-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							
<i>Surrogate: 1-Chlorooctane</i>	50.2		mg/kg	50.0		100	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	50.0		mg/kg	50.0		100	59.5-142			

LCS (2012710-BS1)		Prepared & Analyzed: 27-Jan-22								
GRO C6-C10	212	10.0	mg/kg	200		106	81.6-129			
DRO >C10-C28	204	10.0	mg/kg	200		102	83-129			
Total TPH C6-C28	415	10.0	mg/kg	400		104	84.5-127			
<i>Surrogate: 1-Chlorooctane</i>	55.0		mg/kg	50.0		110	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	56.2		mg/kg	50.0		112	59.5-142			

LCS Dup (2012710-BSD1)		Prepared & Analyzed: 27-Jan-22								
GRO C6-C10	210	10.0	mg/kg	200		105	81.6-129	0.983	21.4	
DRO >C10-C28	207	10.0	mg/kg	200		104	83-129	1.69	17.9	
Total TPH C6-C28	417	10.0	mg/kg	400		104	84.5-127	0.335	17.6	
<i>Surrogate: 1-Chlorooctane</i>	56.4		mg/kg	50.0		113	66.9-136			
<i>Surrogate: 1-Chlorooctadecane</i>	56.5		mg/kg	50.0		113	59.5-142			

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																			
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																			
Address: 2617 West Marland				Company COG																							
City: Hobbs		State: NM		Zip: 88240		Attn: Jacquie Harris																					
Phone #: (575) 264-9884		Fax #:		Address:																							
Project #: 14763		Project Owner: COG		City:																							
Project Name: Mossy Fed. H				State: Zip:																							
Project Location: Rural Eddy				Phone #:																							
Sampler Name: Sammic Casarez				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE ICE COOL OTHER		DATE TIME													
H220322				C		1								2/23/22													
1		F8 @ 2'		C		1										X X X											
2		F9 @ 2'		C		1																					
3		F11 @ 2'		C		1																					
4		NW1 B		C		1																					
5		NW2 B		C		1																					
6		EW2 B		C		1																					
7		SW2 B		C		1																					
H201/2/22																											
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 claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the service. No event shall constitute or be deemed an incidental or consequential damages, including without limitation, punitive damages, attorney's fees or loss of profits, returned to or substituted for or successory claims 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: <i>[Signature]</i>				Date: 2/23/22		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:															
Relinquished By: <i>[Signature]</i>				Date: 1-27-22		Received By: <i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:															
Delivered By: (Circle One) -5.1c				Time: 1308		Sample Condition		CHECKED BY: <i>[Signature]</i>				REMARKS: Push!															
Sampler - UPS - Bus - Other: -5.6c #113						Cool Intact		(Initials)				Please email copy of COC and results to pm@etecheiv															
						<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No																					



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

January 31, 2022

JOEL LOWRY

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: MOSSY FEDERAL 001H

Enclosed are the results of analyses for samples received by the laboratory on 01/28/22 13:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/28/2022	Sampling Date:	01/28/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MOSSY FEDERAL 001H	Sampling Condition:	Cool & Intact
Project Number:	14763	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

Sample ID: F 9 @ 3' (H220339-01)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2022	ND	192	95.8	200	2.98	
DRO >C10-C28*	<10.0	10.0	01/29/2022	ND	226	113	200	1.09	
EXT DRO >C28-C36	<10.0	10.0	01/29/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	80.9 %	66.9-136							
Surrogate: 1-Chlorooctadecane	77.6 %	59.5-142							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

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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

108

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																	
Project Manager:				P.O. #:				Chloride TPH (8015M) BTEX (8021B)																	
Address: 2617 West Marland				Company: <i>COG</i>																					
City: Hobbs State: NM Zip: 88240				Attn: <i>Jacqui Harris</i>																					
Phone #: (575) 264-9884 Fax #:				Address:																					
Project #: <i>14763</i> Project Owner: <i>COG</i>				City:																					
Project Name: <i>Mossy Fed 1H</i>				State: Zip:																					
Project Location: <i>Rural Eddy</i>				Phone #:																					
Sampler Name: <i>Raul Gonzales</i>				Fax #:																					
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:			ACID/BASE: ICE / COOL OTHER:	DATE TIME																
	<i>H220339</i>	<i>F9 @ 3'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<i>11/28/22</i>		<i>X</i>														
<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 fees. 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.</small>																									
Relinquished By: <i>Raul Gonzales</i>				Date: <i>11/28/22</i>		Received By: <i>Jamara Qddak</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:															
Relinquished By:				Date: <i>1/3/15</i>		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:															
Delivered By: (Circle One)				Date: <i>1/28/22</i>		Sample Condition		CHECKED BY: (Initials)		REMARKS: <i>Push!</i> Please email copy of COC and results to pm@etechenv.com.															
Sampler - UPS - Bus - Other:				Time: <i>5:30</i>		Cool Intact		<i>JS</i>																	
				Time: <i>4:00</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																			
				Time: <i>4:00</i>		<input type="checkbox"/> No <input type="checkbox"/> No																			

Appendix C Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: East-Northeast	
Coordinates: 32.592760,-104.021727	
Photo Description: View of the affected area.	

Photo Number: 2	
Photo Direction: West-Northwest	
Coordinates: 32.592760,-104.021727	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>9/1/21, 12:20 PM +32.592809,-104.021625</p>
Photo Direction: North	
Coordinates: 32.592809,-104.021625	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>9/1/21, 12:20 PM +32.592809,-104.021625</p>
Photo Direction: North-Northwest	
Coordinates: 32.592809,-104.021625	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	
Photo Direction: Northeast	
Coordinates: 32.592572,-104.021848	
Photo Description: View of the affected area.	

Photo Number: 6	
Photo Direction: Northwest	
Coordinates: 32.592740,-104.021614	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 7	 <p>Jan 25, 2022 at 10:54:57 AM</p>
Photo Direction: Northwest	
Coordinates: 32.592745,-104.021547	
Photo Description: View of the excavated area.	

Photo Number: 8	 <p>Jan 25, 2022 at 10:55:39 AM</p>
Photo Direction: Southeast	
Coordinates: 32.592886,-104.021672	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 9	
Photo Direction: East	
Coordinates: 32.592852,-104.021808	
Photo Description: View of the excavated area.	

Photo Number: 10	
Photo Direction: East	
Coordinates: 32.592835,-104.021936	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	 <p>Jan 31, 2022 at 3:26:52 PM Carlsbad NM 88220 United States</p>
Photo Direction: North	
Coordinates: 32.592698,-104.021693	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 12	 <p>Jan 31, 2022 at 3:27:15 PM Carlsbad NM 88220 United States</p>
Photo Direction: East	
Coordinates: 32.592783,-104.021824	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log

Photo Number: 13	 <p>Jan 31, 2022 at 3:28:32 PM Carlsbad NM 88220 United States</p>
Photo Direction: South-Southeast	
Coordinates: 32.593042,-104.021660	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 14	 <p>Jan 31, 2022 at 3:29:33 PM Carlsbad NM 88220 United States</p>
Photo Direction: Northwest	
Coordinates: 32.592686,-104.021541	
Photo Description: View of the remediated area following backfill and regrading.	

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 79492

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 79492
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	2/16/2022