Received by OCD: 3/16/2023 8:57:03 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 1 of 5
Incident ID	nAPP2236429003
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?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🖌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🖌 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🖌 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🖌 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🖌 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🖌 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🖌 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🖌 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🖌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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

Page 3

- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 3/16/20	23 8:57:03 AM			Page 2 of 51
roim C-141			Incident ID	nAPP2236429003
Page 4	Oil Conservation Divisio	n	District RP	
			Facility ID	
			Application ID	
I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig addition, OCD acceptance of and/or regulations. Printed Name: <u>Connor</u> Signature: <u>Connor</u> email: <u>cwalker@mewb</u>	wrmation given above is true and complete to the required to report and/or file certain release ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a the fa C-141 report does not relieve the operator walker	he best of my knowledge a notifications and perform or the OCD does not relieve the hreat to groundwater, surfa of responsibility for comp 	nd understand that pursu orrective actions for rele e operator of liability sho ice water, human health liance with any other fec	Lant to OCD rules and ases which may endanger build their operations have or the environment. In deral, state, or local laws
OCD Only Received by: Joce	lyn Harimon	Date:03	/16/2023	

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Oil Conservation Division

Incident ID	nAPP2236429003
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Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. A scaled site and sampling diagram as described in 19.15.29.11 NMAC Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) Description of remediation activities I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Connor Walker Title: Sr. Engineer Signature: _____ Date: 3/16/2023 email: cwalker@mewbourne.com Telephone: (806)202-5281 **OCD Only** Received by: Jocelyn Harimon Date: 03/16/2023 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. Jennifer Nobui Date: 03/24/2023 Closure Approved by: Printed Name: ____Jennifer Nobui Title: Environmental Specialist A

Remediation Summary & Soil Closure Request

Mewbourne Oil Company Jennings 27 W0AP Fed Com #3H

Lea County, New Mexico Unit Letter "A", Section 27, Township 25 South, Range 32 East Latitude 32.1078820 North, Longitude 103.656499 West NMOCD Reference No. nAPP2236429003

Prepared By:

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

n J. Arguijo

Lance Crenshaw



Midland • San Antonio • Lubbock • Hobbs • Lafayette

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- Appendix B Field Data & Soil Profile Logs
- Appendix C Laboratory Analytical Reports
- Appendix D Photographic Log

1.0 **PROJECT INFORMATION**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Jennings 27 W0AP Fed Com #3H (henceforth, "Jennings 27"). Details of the release are summarized below:

atitude:	32.1078820	Longitude:		-103.656499					
	Provi	ded GPS are in WGS84 format							
Site Name: Jenn	nings 27 W0AP Fed Com #3	H Site Type:	Т	ank Battery					
Date Release Discovered:12/17/2022API # (if applicable):30-025-43353									
Unit Letter Section Township Range County									
"A"	27 25S	32E	Lea	-					
Surface Owner: St	ate X Federal Triba Nature a	l Private (Nam	e elease						
X Crude Oil	Volume Released (bbls)	1	Volume Recove	ered (bbls) 0					
Produced Water	Volume Released (bbls)		Volume Recove	ered (bbls)					
Is the concentration of total dissolved solids [TDS) in the produced water > 10,000 mg/L?									
Condensate	Volume Released (bbls)		Volume Recove	ered (bbls)					
Natural Gas	Volume Released (Mcf)		Volume Recove	ered (Mcf)					
Other (describe)	Volume/Weight Released		Volume/Weight	Recovered					
Cause of Release: Heater treater fire.									
	<u> </u>	Initial Response							
X The source of the	release has been stopped.								
X The impacted area	has been secured to protect h	uman health and the en	vironment.						
X Release materials	have been contained via the us	se of berms or dikes, ab	sorbent pad, or oth	er containment devices					
			1						

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 Jennings 27 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?	270'
Did the release impact groundwater or surface water?	Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	Yes X No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production or storage site?	Yes X No

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater, and NMOCD Siting Criteria, the NMOCD Closure Criteria and NMOCD Reclamation Standards for the Jennings 27 release site are as follows:

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

* Measured in milligrams per kilogram (mg/kg)

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

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

4.0 **REMEDIATION ACTIVITIES SUMMARY**

On January 20, 2023, remediation activities commenced at the release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. A Hach Quantab® chloride test kit and/or olfactory/visual senses were utilized to field-screen the horizontal extent of impacted soil and to guide the excavation. The sidewalls and floors of the excavation were advanced until field tests and field observations suggested BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected from the sidewalls and floor of the excavated area to be submitted for laboratory analysis.

On January 20, 2023, Etech collected seven (7) confirmation soil samples (NWS, EWS, SWS, WWS, FS 1 @ 1FT, FS 2 @ 1FT, and FS 3 @ 1FT) 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 and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples. BTEX concentrations were also below the laboratory method detection limit (MDL), with the exception of soil sample FS 1 @ 1 FT, which exhibited a BTEX concentration of 2.09 mg/kg. TPH concentrations ranged from 13.2 mg/kg in soil sample EWS to 1,764 mg/kg in soil sample FS 1 @ 1FT. TPH concentrations exceeded the NMOCD Reclamation Standard of 100 mg/kg in soil samples NWS, WWS, FS 1 @ 1FT, and FS 3 @ 1FT. Chloride concentrations ranged from 48.0 mg/kg in soil sample SWS to 320 mg/kg in soil samples FS 2 @ 1FT and FS 3 @ 1FT.

On January 25, 2023, based on laboratory analytical results, the excavation was further advanced in the areas characterized by soil samples NWS, WWS, FS 1 @ 1FT, and FS 3 @ 1FT. Etech collected four (4) confirmation soil samples (NWS B, WWS B, FS 1 @ 1.5', and FS 3 @ 1.5') from the sidewalls and floor of the excavated area. The soil samples were submitted to the laboratory for analysis of TPH. Laboratory analytical results indicated TPH concentrations were below the applicable NMOCD Closure Criterion, NMOCD Reclamation Standard, and laboratory MDL in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 14 feet in length, 14 feet in width, and 1 to 1.5 feet in depth. During the course of remediation activities, Etech transported approximately 12 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 12 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

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

5.0 **RESTORATION, RECLAMATION & RE-VEGETATION PLAN**

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected area was compacted and contoured to fit the needs of the facility. Final reclamation and revegetation will be conducted upon decommissioning and abandonment of the tank battery.

6.0 SOIL CLOSURE REQUEST

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends Mewbourne Oil Company provide copies of this *Remediation Summary & Soil Closure Request* to the appropriate agencies and request closure be granted to the Jennings 27 release site.

7.0 LIMITATIONS

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

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

8.0 **DISTRIBUTION**

Mewbourne Oil Company

4801 Business Park Blvd. Hobbs, NM 88240

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1 1220 South St. Francis Drive Santa Fe, NM 87505

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

(Electronic Submission)

Figure 1 Topographic Map

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Figure 2 Site Characterization Map



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Figure 3 Site & Sample Location Map



Table 1Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX_TPH & Chloride in Soil											
Mewbourne Oil Company											
Jennings 27 W0AP Fed Com #3H											
	NMOCD Ref. #: nAPP2236429003										
NMO	CD Closure C	riteria		10	50	N/A	N/A	1,000	N/A	2,500	20,000
NMOCD	Reclamation	Standard		10	50	N/A	N/A	N/A	N/A	100	600
				SW 840	5 8021B		SW	846 8015M	Ext.	-	4500 Cl
Sample ID	Date	Depth (Feet)	Soil Status	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 C6-C36 (mg/kg)	Chloride (mg/kg)
NWS	1/20/2023	0-1	Excavated	< 0.050	< 0.300	<10.0	91.6	91.6	13.5	105	160
NWS B	1/25/2023	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
EWS	1/20/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	13.2	13.2	<10.0	13.2	64.0
SWS	1/20/2023	0-1	In-Situ	< 0.050	< 0.300	<10.0	41.5	41.5	<10.0	41.5	48.0
WWS	1/20/2023	0-1	Excavated	< 0.050	< 0.300	<10.0	937	937	175	1,110	64.0
WWS B	1/25/2023	0-1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 1 @ 1FT	1/20/2023	1	Excavated	0.0820	2.09	38.7	1,490	1,530	235	1,760	160
FS 1 @ 1.5'	1/25/2023	1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-
FS 2 @ 1FT	1/20/2023	1	In-Situ	< 0.050	< 0.300	<10.0	71.0	71.0	16.8	87.8	320
FS 3 @ 1FT	1/20/2023	1	Excavated	< 0.050	< 0.300	<10.0	1,350	1,350	218	1,570	320
FS 3 @ 1.5'	1/25/2023	1.5	In-Situ	-	-	<10.0	<10.0	<20.0	<10.0	<30.0	-

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Appendix A Depth to Groundwater Information





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.

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WATER COLUMN/ AVERAGE DEPTH TO WATER





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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320504103361801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320504103361801 25S.33E.31.24232

Lea County, New Mexico Latitude 32°05'21.6", Longitude 103°36'12.7" NAD83 Land-surface elevation 3,403.00 feet above NGVD29 The depth of the well is 320 feet below land surface. This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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

Date \$	Time \$? Water- level \$ date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? \$tatus	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1954-07-26		D	72019	257.55			1	Z			A
1970-12-08		D	72019	240.14			Р	Z			A
2013-01-16	19:45 UTC	m	72019	232.96			1	S	USGS	S	A

Released to Imaging: 3/24/2023 1:32:12 PM

Explanation						
Section \$	Code \$	Description				
Water-level date-time accuracy	D	Date is accurate to the Day				
Water-level date-time accuracy	m	Date is accurate to the Minute				
Parameter code	62610	Groundwater level above NGVD 1929, feet				
Parameter code	62611	Groundwater level above NAVD 1988, feet				
Parameter code	72019	Depth to water level, feet below land surface				
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988				
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929				
Status	1	Static				
Status	Р	Pumping				
Method of measurement	S	Steel-tape measurement.				
Method of measurement	Z	Other.				
Measuring agency		Not determined				
Measuring agency	USGS	U.S. Geological Survey				
Source of measurement		Not determined				
Source of measurement	S	Measured by personnel of reporting agency.				
Water-level approval status	А	Approved for publication Processing and review completed.				

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U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team Page Last Modified: 2023-03-14 21:15:44 EDT 0.34 0.23 nadww01 USA.gov



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Groundwater levels for the Nation

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 320449103360101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320449103360101 25S.33E.31.44424

Lea County, New Mexico Latitude 32°04'49", Longitude 103°36'01" NAD27 Land-surface elevation 3,383 feet above NAVD88 This well is completed in the Other aquifers (N9999OTHER) national aquifer. This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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

Date	? Water- level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? \$tatus	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1981-03-25	D	72019	192.15			Р	Z			A
1986-03-18	D	72019	189.79			1	Z			A

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Explanation								
Section \$	Code \$	Description						
Water-level date-time accuracy	D	Date is accurate to the Day						
Parameter code	62610	Groundwater level above NGVD 1929, feet						
Parameter code	62611	Groundwater level above NAVD 1988, feet						
Parameter code	72019	Depth to water level, feet below land surface						
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988						
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929						
Status	1	Static						
Status	Р	Pumping						
Method of measurement	Z	Other.						
Measuring agency		Not determined						
Source of measurement		Not determined						
Water-level approval status	А	Approved for publication Processing and review completed.						

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Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-03-14 21:17:37 EDT 0.31 0.25 nadww01 USA.gov

Appendix B Field Data & Soil Profile Logs



Sample Log

Date:

Longitude:

Jennings 27 WOAP Fed Com 3H Project: Project Number: 17355 Latitude: 32.107882

-103.656499

Sample ID	PID/Odor	Chloride Conc.	GPS
FS 1 @ Ginche's	Light	408	
FS 2 @ 6 inches	Light	368	
FS 3 @ Ginches	Medium	408	
SWS	-	ND	
NWS		228	
εως	-	200	
wws	-	ND	
F5 1. @ 1.Ft	-	552 -	
FS 2. @ 1. Ft	-	500	
FS 3. (1.Ft	-	368	
FS 3.00 12	-	380	
FS 1.61/2	-	390	
WWS B	-	408	
NWS B	-	500	
	-	er.	-
			- 'a
×			
Sample Point = SP #1 @ ## etc		Test Trench = TT #1 @ ##	Resamples= SP #1 @ 5b or SW #1b
Floor = FL #1 etc		Refusal = SP #1 @ 4'-R	Stockpile = Stockpile #1
Sidewall = SW #1 etc		Soil Intended to be Deferred = SP #1 @ 4' In-Situ	GPS Sample Points, Center of Comp Areas
<i>a p</i>			
PAUL			
e co			



Soil Profile

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					Date:	
Project.	Jennings 2	7 WOAP Fed Com	31			
Project.	Jernings Z	47255	t a tituda .	22 107002	Longitudos	102 (5(400
Project Nur	nber:	1/355	Latitude:	32.10/882	Longitude:	-103.656499
Depth (ft. ba	s) . 11		1 1	Des	scription	
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Appendix C Laboratory Analytical Reports



January 24, 2023

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

RE: JENNING'S 27 WOAP FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/23/23 8:15.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: NWS (H230318-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	129 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	91.6	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	13.5	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	84.0	48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: EWS (H230318-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	128 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	13.2	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	89.2 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 %	49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: SWS (H230318-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	41.5	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	90.6 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: WWS (H230318-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	937	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	175	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	74.9 %	48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 1. @ 1FT (H230318-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.082	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	0.750	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	0.680	0.050	01/23/2023	ND	2.07	104	2.00	6.08	GC-NC1
Total Xylenes*	0.575	0.150	01/23/2023	ND	6.43	107	6.00	5.58	GC-NC1
Total BTEX	2.09	0.300	01/23/2023	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	310 %	6 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.7	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	1490	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	235	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	96.3 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	153 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 2. @ 1FT (H230318-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	71.0	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	16.8	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	71.0	48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/23/2023	Sampling Date:	01/20/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE		

Sample ID: FS 3. @ 1FT (H230318-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/23/2023	ND	2.01	101	2.00	7.11	
Toluene*	<0.050	0.050	01/23/2023	ND	2.16	108	2.00	6.70	
Ethylbenzene*	<0.050	0.050	01/23/2023	ND	2.07	104	2.00	6.08	
Total Xylenes*	<0.150	0.150	01/23/2023	ND	6.43	107	6.00	5.58	
Total BTEX	<0.300	0.300	01/23/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/23/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	207	104	200	2.39	
DRO >C10-C28*	1350	10.0	01/23/2023	ND	199	99.5	200	1.63	
EXT DRO >C28-C36	218	10.0	01/23/2023	ND					
Surrogate: 1-Chlorooctane	93.9 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	168 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 3/24/2023 1:32:12 PM

ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO			A	ANALYSIS REQUEST	
roject Manager: Lance (Venshaw)	P.O. 1	#:					T
ddress: P.O. Box 301	Comp	npany: Melling	ine				
ity: Lovington State: NM Zip: 88260	Attn:	JeFE					
hone #: (575) 396-2378 Fax #: (575) 396-1429	Addre	ress:					
roject #: /9.3.5.5 Project Owner:	Cibr						
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4 WWS X	(X	1	X		
SES 1, @ 1Ft X			X	X	X		
6 FS 2. G / Ft x			X	×	×		1
7 FS 3. @ /Ft X			X	×	X		1
-		4					1
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ASE NOTE: Liability and Demages. Cardinal's liability and client's exclusive remody for any claim arising whether in lyses. All claims: including those for negligence and any other cause wheteoever shall be deemed waived univers m	d in contract or lort, she in writing and received l	theil be limited to the amount paid by ad by Cardinal within 30 days aller o	y the client for the ampletion of the appli	cable			
Any in the event shall Cardinal be liable for incidential or consequential demages, including without limitation, basine interest or successors anying out of or related to the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of with the performance of services hereunder by Cardinal regardless of services hereunder by Cardinal regardless of services of the performance of services hereunder by Cardinal regardless of services hereunder by Cardinal regardless of services of the performance of services hereunder by Cardinal regardless of services of the performance of services of the performance of services hereunder by Cardinal regardless of services of the performance of the performa	terruptions, loss of use, r such claim is based up	ee, or loss of profile incurred by clien upon any of the above stated mean	nt, illi subscherwise, ons or otherwise.		1	* 4 M* M* 4	
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Time:			/	~	154	Samples	
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ampler - UPS - Bus - Other: _ 3.1 c/- 3.7 c	Yes	To-					
FORM-006 († Cardinal cannot a	cent verbal ch	hanges Please fax	written chan	ues to 5	75-393-2476		

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January 26, 2023

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

RE: JENNING'S 27 WOAP FED COM 3H

Enclosed are the results of analyses for samples received by the laboratory on 01/25/23 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/25/2023	Sampling Date:	01/25/2023
Reported:	01/26/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: NWS B (H230357-01)

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	01/26/2023	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	01/26/2023	ND	199	99.6	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/26/2023	ND					
Surrogate: 1-Chlorooctane	95.8 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 %	6 49.1-14	8						

Sample ID: WWS B (H230357-02)

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	01/26/2023	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	01/26/2023	ND	199	99.6	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/26/2023	ND					
Surrogate: 1-Chlorooctane	80.8 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9 \$	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW 2617 W MARLAND HOBBS NM, 88240 Fax To:

Received:	01/25/2023	Sampling Date:	01/25/2023
Reported:	01/26/2023	Sampling Type:	Soil
Project Name:	JENNING'S 27 WOAP FED COM 3H	Sampling Condition:	Cool & Intact
Project Number:	17355	Sample Received By:	Jodi Henson
Project Location:	MEWBOURNE		

Sample ID: FS 1. @ 1.5' (H230357-03)

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	01/26/2023	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	01/26/2023	ND	199	99.6	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/26/2023	ND					
Surrogate: 1-Chlorooctane	108 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 %	6 49.1-14	8						

Sample ID: FS 3. @ 1.5' (H230357-04)

TPH 8015M	mg/k	(g	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/26/2023	ND	202	101	200	1.64	
DRO >C10-C28*	<10.0	10.0	01/26/2023	ND	199	99.6	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/26/2023	ND					
Surrogate: 1-Chlorooctane	69.9 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.3 %	6 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 3/16/2023 8:57:03 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: Etech Environmental & Safety Solutions, Inc.			BILL TO ANALYSIS REQUES			ANALYSIS REQUEST		
Project Manage	r: Lanc Crenshall	V	P.O. #: Mewbor	wn. c			1	
Address: 261	7 W Marland		Company Jeff Broom					
City: Hobbs	State: NM	Zip: 88240	Attn: Jeff Bi	Attn: Jeff Broom				
Phone #: (57	5) 264-9884 Fax #:		Address: 4801 B	KRIKBIU				
Project #: 17	355 Project Owner	: Mewbourne	City: Hobbs				_	
Project Name:	JENNINGS WORP Fe	c com 3 H	State: N/M Zip:		e	5M)	21B	
Project Location	n: Ruval De Hobbs	Nn	Phone #:		oric	801	(80	
Sampler Name:	Dominic Casa	.012	Fax #:		- E	Ŧ	EX	
FOR LAB USE ONLY		MATRIX	PRESERV. SAM	PLING		=	B	
Lab I.D. H1. 30351	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL ÔIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	e time			/	
1	NWSB	1	1/25	1.00		1		
2	WW5B	1	1/24	1:15		1	-	
3	F51. 812 Ft	1	1/24	1:25		1	-	
4	F63. @12.Ft		125	1:35		/		
				-				
						-	-	
				-			-	
PLEASE NOTE: Lisbility an	d Damages. Cardinal's liability and client's exclusive remody for an	ly claim arising whether based in contrac	t or tort, shall be limited to the amoun	t paid by the client for	the			
analyses. Ait clams includi pervice. In no event shall C	ng those for negligence and any other cause whatsoever shall be d ardinet be liable for incidentel or consequentel damages, including	leemed waived unless made in writing ar without limitation, business interruptions,	id received by Cardinal within 30 days loss of use, or loss of prolits incurred	after completion of the by client, its subsidiar	ve applicabl vies,	le		
Relinquished By	Provide the performance of services hereunder by C. Date: 1/25 Time:4-50	Received By:	DIALDIA	Phone Re Fax Resul REMARKS	sult: t: S:	Ves Yes		No Add'I Phone #: No Add'I Fax #:
Relinquished By	y: Date: Time:	Received By:	No toto L	-		R	U.	SH!
Delivered By: Sampler - UPS	: (Circle One) - Bus - Other: 井バろ ス:	Sample Condi Cool Intact	tion CHECKED BY: (Initials) o	Please e	mail re	esults	and c	copy of CoC to pm@etechenv.com.
FORM-00 Revision	06 † Car 1.0	rdinal cannot accept ve	rbal changes. Please	fax written c	hange	s to 5	75-393	93-2476

Appendix D Photographic Log





View of the excavated area.











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

Operator:	OGRID:				
MEWBOURNE OIL CO	14744				
P.O. Box 5270 Action	Action Number:				
Hobbs, NM 88241	197847				
	Action Type:				
	[C-141] Release Corrective Action (C-141)				

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/24/2023

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Action 197847