

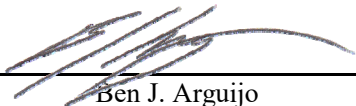
Remediation Summary & Variance Request


Mewbourne Oil Company CWMS Whitesnake Riser

Eddy County, New Mexico
Unit Letter "C", Section 20, Township 23 South, Range 28 East
Latitude 32.29585 North, Longitude 104.11035 West
NMOCD Reference No. nAPP2422659329

Prepared By:

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Midland • San Antonio • Lubbock • Hobbs • Lafayette

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1.0 PROJECT INFORMATION

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

Location of Release Source

Latitude: 32.29585 Longitude: -104.11035
Provided GPS are in WGS84 format.

Site Name: CWMS Whitesnake Riser	Site Type: Pipeline
Date Release Discovered: 7/30/2024	API # (if applicable): N/A

Unit Letter	Section	Township	Range	County
"C"	20	23S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name Rustler Hills II Limited Partners)

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 543	Volume Recovered (bbls) 66
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released	Volume/Weight Recovered
Cause of Release: Equipment failure		

Initial Response

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

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Less than or equal 25 (ft.)
What method was used to determine the depth to groundwater?	Direct Measurement
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the minimum distance between the closest lateral extents of the release and the following surface areas?	
A continuously flowing watercourse or any other significant watercourse?	Between 1,000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 1,000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between 1,000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Between 1,000 (ft.) and ½ (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between 1 and 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Medium
A 100-year floodplain?	Between 1,000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the CWMS Whitesnake Riser release site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. In addition, on August 21, 2024, a temporary monitor well (NMOSE ID #C-04869 POD-1) was drilled nearby to determine if shallow groundwater is present in the area. The soil boring was advanced to a total depth of approximately 30 feet bgs and left open for over 72 hours. A groundwater gauging event conducted on August 28, 2024, indicated that the depth to groundwater was approximately 22 feet bgs. Following gauging, a groundwater sample was collected from the well, the temporary PVC casing was removed, and the well was plugged and abandoned in accordance with an NMOSE-approved "Plugging Plan of Operations." The location of the temporary monitor well is depicted in Figures 2A, 2B, and 4. The NMOSE "Well Record & Log" and "Plugging Plan of Operations" for the well are provided in Appendix A.

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

3.0 REMEDIATION ACTIVITIES SUMMARY

On August 2, 2024, remediation activities commenced at the CWMS Whitesnake Riser release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standards is being excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit are being utilized to field-screen the horizontal extent of impacted

soil and to guide the excavation. The sidewalls of the excavation are being advanced until field tests and field observations suggest that BTEX, TPH, and chloride concentrations are below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. To date, approximately 83,642 square feet of the affected area has been excavated vertically to a total depth of approximately four (4) feet bgs. An additional 2,688 square feet of impacted soil within the adjacent, fenced ConocoPhillips Company yard still requires remediation.

Requesting a remediation plan approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
On what estimated date will (or did) the remediation commence?	8/2/2024	
On what date will (or did) the final sampling or liner inspection occur?	11/15/2024	
On what date will (or was) the remediation complete(d)?	11/29/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	86,330	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	12,790	
What was the total surface area (sq. ft.) that has or will be remediated?	86,330	
What was the total volume (cy) that has or will be remediated?	12,790	
This remediation utilized the following processes to remediate/reduce contaminants: (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Soil Vapor Extraction	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Ground Water Abatement pursuant to 19.15.30 NMAC	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other (Non-listed remedial process)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Which OCD approved facility was or will be used for off-site disposal?	R360 Red Bluff Facility	
NMOCD Disposal Facility ID?	Texas	
Summarize any additional remediation activities not included by answers above.	See below	

On August 19, 2024, Etech advanced four (4) test trenches (TT 1 through TT 4) within the release margins in an effort to determine the vertical extent of impacted soil. The test trenches were advanced in increments of two (2) feet to total depths ranging from 12 feet bgs in trenches TT 3 and TT 4 to 18 feet bgs in trench TT 1. During the advancement of the test trenches, soil samples were collected and field-screened for concentrations of chloride utilizing a Hach Quantab ® chloride test kit and/or the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses.

Based on field observations and field test data, a total of 33 delineation soil samples (TT 1 @ 0' through TT 1 @ 18', TT 2 @ 0' through TT 2 @ 16', TT 3 @ 0' through TT 3 @ 12', and TT 4 @ 0' through TT 4 @ 12') were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Based on laboratory analytical results and field screens, the vertical extent of impacted soil was adequately defined in the areas characterized by test trenches TT 1 through TT 4 and ranged from approximately 10 feet bgs in trenches TT 3 and TT 4 to 18 feet bgs in trench TT 1.

Summary of Soil Sampling Events

Constituent	Highest Observed Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	71,200	TT 4 @ 0'	8/19/2024	0	Excavated
TPH	1,230	TT 4 @ 0'	8/19/2024	0	Excavated
GRO+DRO	952	TT 4 @ 0'	8/19/2024	0	Excavated
BTEX	0.464	TT 4 @ 0'	8/19/2024	0	Excavated
Benzene	<0.050	All submitted soil samples	8/19/2024	0 - 18	In-Situ & Excavated

Please reference Table 1 for additional information.

To date, Etech has transported approximately 10,652 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 9,852 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

The locations of the test trenches and the extents of the excavated area and the area still in need of remediation are depicted in Figure 3, "Sample Location Map." Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the release site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix F.

4.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

The groundwater sample collected from temporary monitor well C-04869 POD-1 on August 28, 2024, was submitted to the laboratory for analysis of chloride and total dissolved solids (TDS). Laboratory analytical results indicated that the chloride concentration was 6,000 mg/L and the TDS concentration was 12,600 mg/L. Since the background concentrations of chloride and TDS exceed the New Mexico Water Quality Control Commission (NMWQCC) standards of 250.0 mg/L and 1,000.0 mg/L specified in Sections 20.6.2.3103 B.(1) and B.(7) NMAC, respectively, the groundwater underlying the release site is not "fresh water", pursuant to NMAC Section 19.15.29.12 C.(4)(c)(ii). The laboratory analytical report is provided in Appendix E.

The pattern of elevated and spiking chloride concentrations observed in test trenches TT 1 through TT 4 (see Table 1) and in field tests from the excavated area (see field notes in Appendix B) does not align with the depths and levels of impact that would have been reasonably expected from the release. A review of historical aerial imagery, along with the chloride and TDS concentrations in the groundwater sample, suggests that there may either be (a) naturally occurring chloride in the subsurface soil at the release site or (b) residual chloride impacts from the area’s historical use as agricultural cropland.

Based on the information summarized above, Mewbourne Oil Company believes that the Closure Criteria specified in Table I, Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) is not applicable to the CWMS Whitesnake Riser release and hereby requests that the NMOCD Closure Criteria be revised as follows:

Closure Criteria for Soils Impacted by a Release

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Current Closure Criteria*	Revised Closure Criteria*
Less than or equal 25 (ft.)	Chloride (Cl-)	EPA** 300.0 or SM4500 Cl B	600	20,000
	Total Petroleum Hydrocarbons (TPH)	EPA SW-846 Method 8015M Ext	100	2,500
	Gas Range Organics + Diesel Range Organics (GRO+DRO)	EPA SW-846 Method 8015M	N/A	1,000
	Benzene	EPA SW-846 Methods 8021b or 8260b	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)
** Environmental Protection Agency

5.0 VARIANCE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	86,330 (in progress)	
What was the total volume (cy) remediated?	12,790 (in progress)	

A variance is requested for an alternative sampling plan comprised of five-point composite confirmation samples collected from the floor(s) of the excavated area(s) at intervals representing no more than 500 square feet, as opposed to the standard 200-square-foot sampling plan. Mewbourne Oil Company believes that a reduction in the sampling intervals is permissible given the information summarized in Section 4.0 above and the size and nature of the release.

Based on the size of the total area to be excavated (approximately 86,330 square feet), approximately 173 composite soil samples will be collected from the floor(s) of the excavated area(s) and submitted for laboratory analysis, compared to approximately 432 samples under a standard 200-square-foot plan. The proposed alternative sampling plan is depicted in Figure 3, "Sample Location Map". The map illustrates that, while there are fewer total composite samples in the 500-square-foot plan, the plan is adequately representative of the affected area, with minimal gaps between each sampling section/zone. Since each individual composite sample will incorporate soil from five (5) spots within a 500-square-foot zone, this effectively equates to a total of approximately 865 sample points, which decreases the likelihood that any hotspots will be missed. Furthermore, the composite samples will include wet and/or visibly stained areas, from which additional discrete samples will also be collected, as necessary. Composite soil samples will also be collected every 100 linear feet from the sidewalls of the excavated area(s).

Based on the information summarized above, Mewbourne Oil Company affirms that the proposed 500-square-foot sampling plan provides "an equal or better protection of fresh water, public health, and the environment" as the standard 200-square-foot plan, pursuant to Section 19.15.29.14 A.(2) NMAC.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a reclamation approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a restoration complete approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
What was the total surface area (sq. ft.) reclaimed?	0 (in progress)	
What was the total volume (cy) reclaimed?	0 (in progress)	

Upon receipt of all confirmation soil sample results, areas affected by remediation and closure activities will be substantially restored to the condition that existed prior to the release, to the extent practicable. Excavated areas will be backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas will be compacted and contoured to achieve erosion control, stability, and preservation of surface water flow, to the extent practicable. Affected areas not on caliche pads, pipeline rights-of-way, and/or lease roads will be revegetated at a time conducive to germination with an agency and/or landowner-approved seed mixture certified to be free of noxious weeds. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

Upon completion of remediation and reclamation activities, a *Remediation Summary & Soil Closure Request* will be prepared detailing field activities and laboratory analytical results from confirmation soil samples.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *Remediation Summary & Variance 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

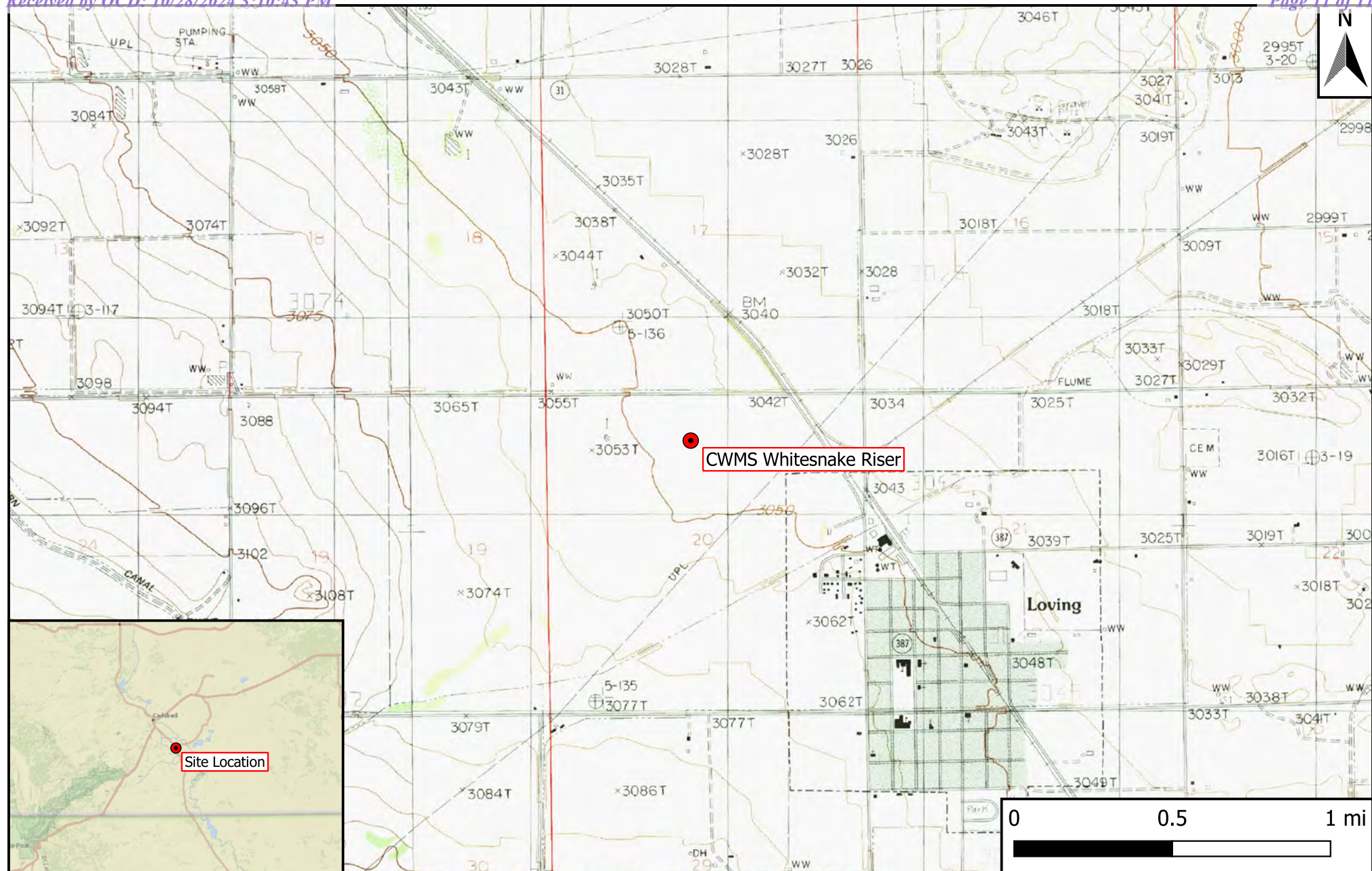
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

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

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map
 Mewbourne Oil Company
 CWMS Whitesnake Riser
 GPS: 32.29585, -104.11035
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 7/30/24

Figures 2A & 2B

Site Characterization Maps

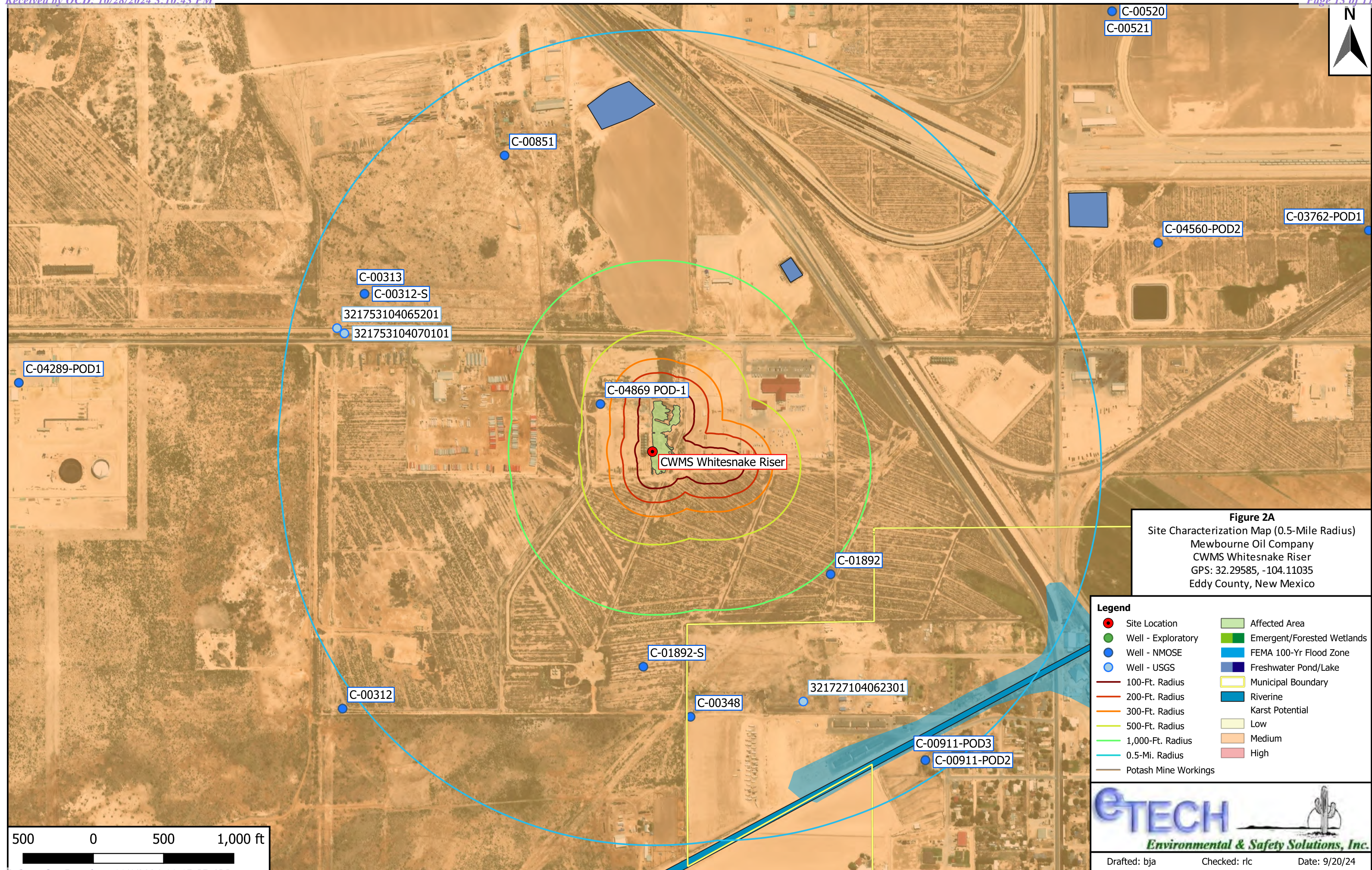


Figure 2A
Site Characterization Map (0.5-Mile Radius)
Mewbourne Oil Company
CWMS Whitesnake Riser
GPS: 32.29585, -104.11035
Eddy County, New Mexico

- Legend**
- | | |
|------------------------|------------------------------|
| ● Site Location | ■ Affected Area |
| ● Well - Exploratory | ■ Emergent/Forested Wetlands |
| ● Well - NMOSE | ■ FEMA 100-Yr Flood Zone |
| ● Well - USGS | ■ Freshwater Pond/Lake |
| — 100-Ft. Radius | — Municipal Boundary |
| — 200-Ft. Radius | ■ Riverine |
| — 300-Ft. Radius | ■ Karst Potential |
| — 500-Ft. Radius | ■ Low |
| — 1,000-Ft. Radius | ■ Medium |
| — 0.5-Mi. Radius | ■ High |
| — Potash Mine Workings | |

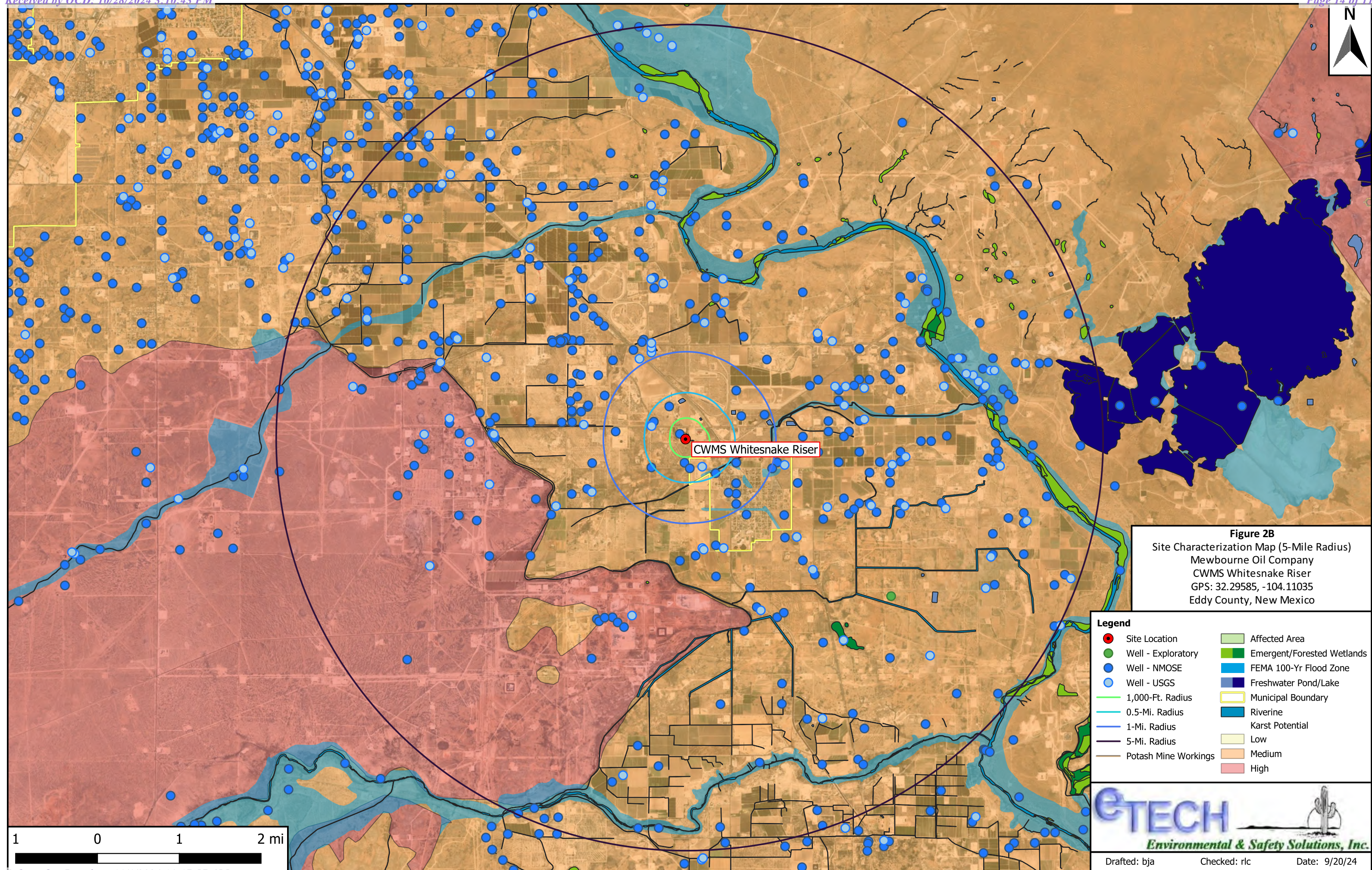
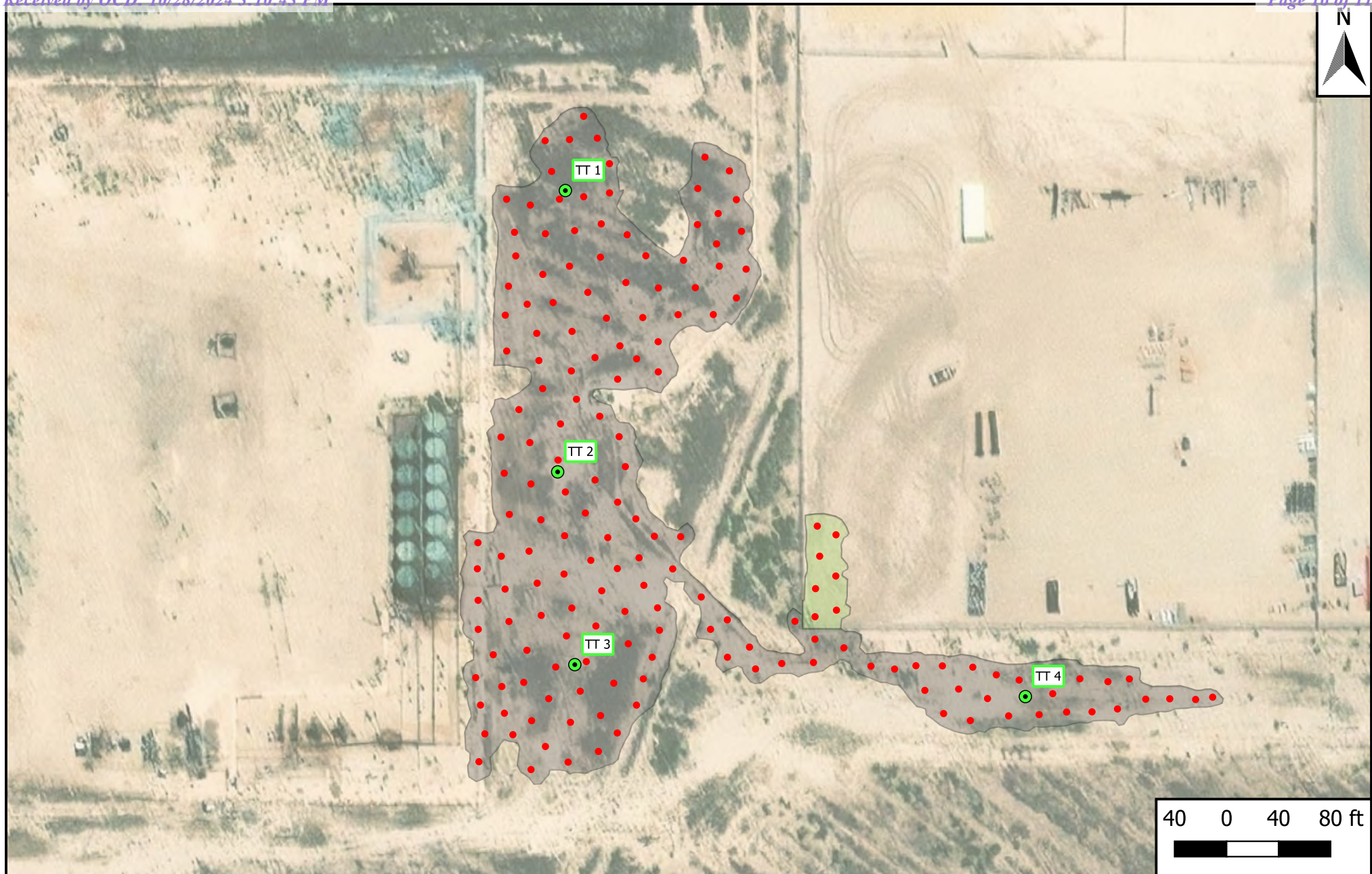


Figure 3

Sample Location Map



Legend

- Excavated Area (83,642 ft²)
- Area Pending Excavation (2,688 ft²)
- Delineation Sample Point
- Proposed Floor Sample Location

Figure 3
 Sample Location Map
 Mewbourne Oil Company
 CWMS Whitesnake Riser
 GPS: 32.29585, -104.11035
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 10/16/24

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company CWMS Whitesnake Riser NMOCD Ref. #: nAPP2422659329											
NMOCD Closure Criteria				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
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)
TT 1 @ 0'	8/19/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
TT 1 @ 2'	8/19/2024	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,800
TT 1 @ 4'	8/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,400
TT 1 @ 6'	8/19/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	6,880
TT 1 @ 8'	8/19/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,920
TT 1 @ 10'	8/19/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,790
TT 1 @ 12'	8/19/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,010
TT 1 @ 14'	8/19/2024	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,170
TT 1 @ 16'	8/19/2024	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,040
TT 1 @ 18'	8/19/2024	18	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
TT 2 @ 0'	8/19/2024	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,400
TT 2 @ 2'	8/19/2024	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	10,200
TT 2 @ 4'	8/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,400
TT 2 @ 6'	8/19/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,760
TT 2 @ 8'	8/19/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
TT 2 @ 10'	8/19/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,040
TT 2 @ 12'	8/19/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	864
TT 2 @ 14'	8/19/2024	14	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
TT 2 @ 16'	8/19/2024	16	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
TT 3 @ 0'	8/19/2024	0	Excavated	<0.050	<0.300	13.4	904	917	190	1,110	46,400
TT 3 @ 2'	8/19/2024	2	Excavated	<0.050	<0.300	<10.0	12.5	12.5	30.0	42.5	6,720
TT 3 @ 4'	8/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,640
TT 3 @ 6'	8/19/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,800
TT 3 @ 8'	8/19/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,760
TT 3 @ 10'	8/19/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
TT 3 @ 12'	8/19/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
TT 4 @ 0'	8/19/2024	0	Excavated	<0.050	0.464	<10.0	952	952	274	1,230	71,200
TT 4 @ 2'	8/19/2024	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	10.1	10.1	6,480
TT 4 @ 4'	8/19/2024	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	18,800
TT 4 @ 6'	8/19/2024	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
TT 4 @ 8'	8/19/2024	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	800
TT 4 @ 10'	8/19/2024	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
TT 4 @ 12'	8/19/2024	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448

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

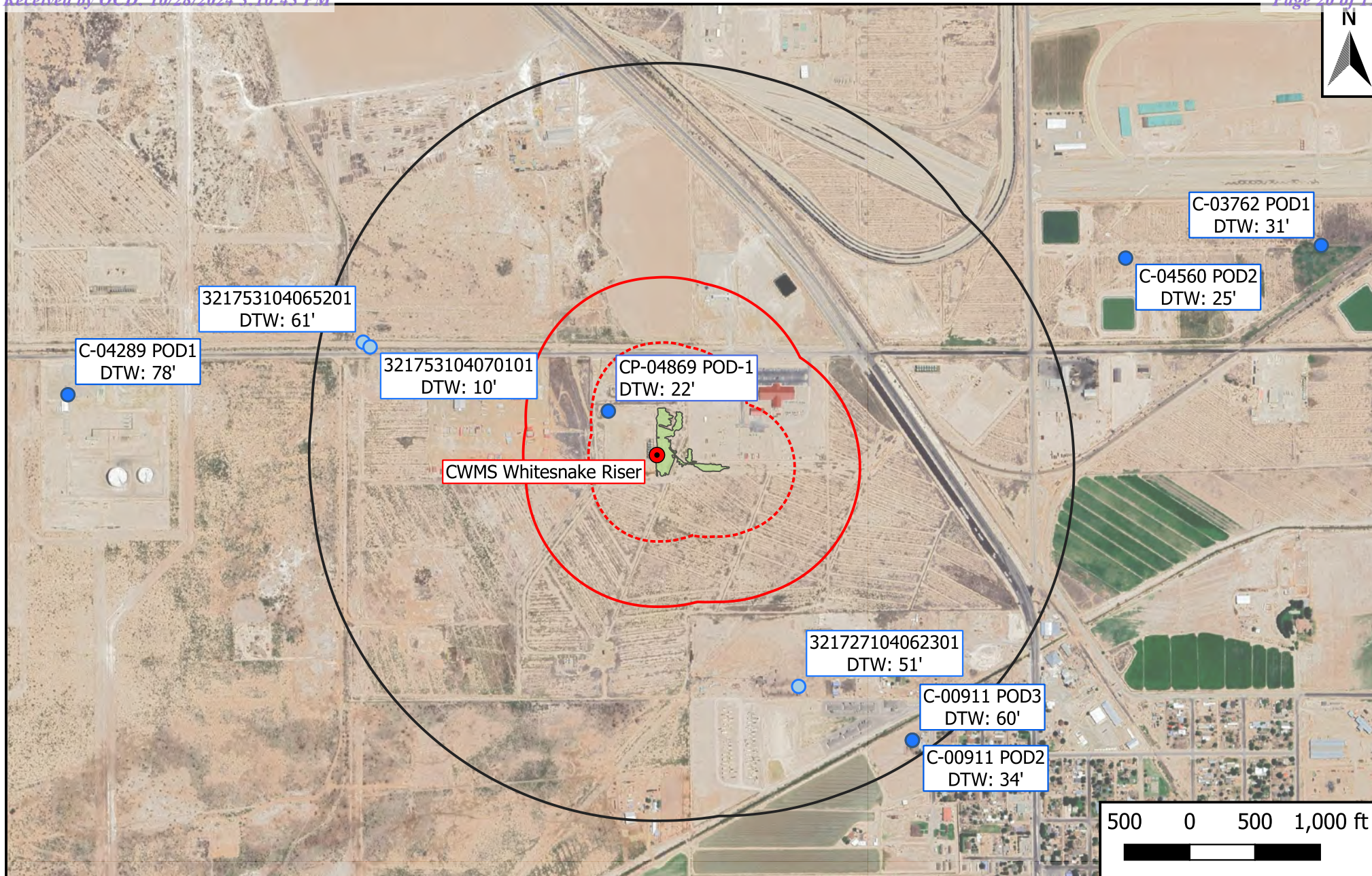
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- Affected Area (79,008 ft²)
- 0.5-Mile Radius
- 1,000-Foot Radius
- 500-Foot Radius

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 CWMS Whitesnake Riser
 GPS: 32.29585, -104.11035
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 10/15/24



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
smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 00313		CUB	ED	SW	SW	SW	17	23S	28E	583136.0	3573915.0 *		712	250	75	175
C 00851		C	ED			SW	17	23S	28E	583438.0	3574217.0 *		717	200	50	150

Average Depth to Water: 62 feet

Minimum Depth: 50 feet

Maximum Depth: 75 feet

Record Count: 2

UTM Filters (in meters):

Easting: 583762.70
Northing: 3573576.66
Radius: 804.67


* UTM location was derived from PLSS - see Help

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

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00313	SW	SW	SW	17	23S	28E	583136.0	3573915.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	24	Driller Company:	BRININSTOOL, M.D.
Driller Name:	HOWARD HEMLER		
Drill Start Date:	1952-06-01	Drill Finish Date:	1952-06-01
Log File Date:	1952-07-07	PCW Rcv Date:	1953-04-20
Pump Type:	TURBIN	Pipe Discharge Size:	Estimated Yield: 3000
Casing Size:	18.00	Depth Well:	250
		Depth Water:	75

Water Bearing Stratifications:

Top	Bottom	Description
105	123	Sandstone/Gravel/Conglomerate
128	133	Sandstone/Gravel/Conglomerate
136	155	Sandstone/Gravel/Conglomerate
177	181	Sandstone/Gravel/Conglomerate
198	246	Sandstone/Gravel/Conglomerate

Casing Perforations:


Top	Bottom
92	192

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

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00851			SW	17	23S	28E	583438.0	3574217.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	24	Driller Company:	BRININSTOOL, M.D.		
Driller Name:	W D BRININSTOOL				
Drill Start Date:	1958-09-01	Drill Finish Date:	1958-09-01	Plug Date:	
Log File Date:	1958-09-30	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	6.63	Depth Well:	200	Depth Water:	50

Water Bearing Stratifications:

Top	Bottom	Description
20	30	Sandstone/Gravel/Conglomerate
97	105	Other/Unknown
107	130	Sandstone/Gravel/Conglomerate
188	200	Other/Unknown

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

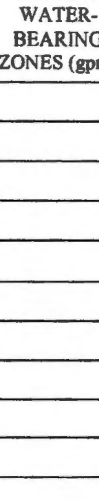
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S). CP-04869		
	WELL OWNER NAME(S) Mewbourne Oil Co.				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 4801 Business Park Blvd.				CITY Hobbs	STATE NM	
					ZIP 88241		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 17	SECONDS 48.42	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE			N	* DATUM REQUIRED: WGS 84		
	LONGITUDE	-104	06	41.57	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SENE S-2 T19S R28E							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC	
	DRILLING STARTED 8/21/24	DRILLING ENDED 8/21/24	DEPTH OF COMPLETED WELL (FT) 30	BORE HOLE DEPTH (FT) 30	DEPTH WATER FIRST ENCOUNTERED (FT) 22		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 22	DATE STATIC MEASURED 8/28/24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
				No casing left in hole			
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A no casing left in hole			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES <small>(attach supplemental sheets to fully describe all units)</small>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	1	1	white caliche	Y ✓ N		
	1	20	19	light brown silty clay	Y ✓ N		
	20	30	10	dark brown silty clay with some small gravel	✓ Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input checked="" type="checkbox"/> OTHER – SPECIFY: N/A					TOTAL ESTIMATED WELL YIELD (gpm):	
	5. TEST; RIG SUPERVISION	WELL TEST		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION:							
Well was drilled on 8/21/24, water was encountered so drilling was ceased, well was gauged with a well sounder on 8/28/24, static water level was 22' BGSL casing was pulled and well was plugged in accordance with the approved plugging plan.							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: James Hawley							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:						
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME					_____ DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO	PAGE 2 OF 2	

State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 765138
File Nbr: C 04869

Aug. 14, 2024

JAMES HAWLEY
MEWBOURNE OIL CO.
P.O. BOX 3641
HOBBS, NM 88241

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

Enclosure

explore

File No. C-04869 POD1

NEW MEXICO OFFICE OF THE STATE ENGINEER



WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe): groundwater determination
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.		
*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.		
<input type="checkbox"/> Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.		
<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 8/7/24		Requested End Date: 8/7/25
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form. ☐

1. APPLICANT(S)

Name: Mewbourne Oil Co.	Name:
Contact or Agent: check here if Agent <input checked="" type="checkbox"/> H&R Enterprises, LLC/James Hawley	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: PO 3641	Mailing Address:
City: Hobbs	City:
State: Zip Code: NM 88241	State: Zip Code:
Phone: (575) 605-3471 <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): jhawley@h-r-enterprises.com	E-mail (optional):

OCD OCT AUG 12 2024 PM 2:43

FOR OSE INTERNAL USE

Application for Permit, Form WR-07, Rev 07/10/2024

File No.: C-04869	Trn. No.: 765138	Receipt No.: 2-47190
Trans Description (optional):		
Sub-Basin: CVB	PCW/LOG Due Date: 8/14/25	

Page 1 of 3

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.					
<input checked="" type="checkbox"/> NM State Plane (NAD83) (Feet) <input type="checkbox"/> NM West Zone <input checked="" type="checkbox"/> NM East Zone <input type="checkbox"/> NM Central Zone		<input type="checkbox"/> UTM (NAD83) (Meters) <input type="checkbox"/> Zone 12N <input type="checkbox"/> Zone 13N		<input type="checkbox"/> Lat/Long (WGS84) (to the nearest 1/10 th of second)	
Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	Well Depth in feet	Casing Diameter (OD)
C-04869 POD1	-104.111629	32.296226	NENW S-20 T23S R28E	105	2"
NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)					
Additional well descriptions are attached: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, how many _____					
Other description relating well to common landmarks, streets, or other: 0.3 miles SW of the intersection of US 285 and London Rd.					
Well is on land owned by: Rustler Hills II Limited Partner					
Well Information: NOTE: If casings telescope or involve nested casing, please provide diagram. Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Approximate depth to water (feet): Unknown					
Driller Name: James Hawley			Driller License Number: WD-1862		

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

One 6" borehole will be advanced to determine the depth of groundwater at the Mewbourne White Snake 20 21 W2bc Fee #1H remediation site. The Borehole will be advanced until groundwater is reached or a maximum depth of 105' BGS, two inch casing will be installed into the borehole and left for 72 hours. After casing is gauged, it will be pulled and the borehole will be plugged pursuant to NMOSE guidelines. No pump will be installed.

OCD DTI AUG 12 2024 4:24:43

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/10/2024

File No.: C-04869 POD1

Trm No.: 765138

Page 2 of 3

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input checked="" type="checkbox"/> Include a description of any proposed pump test, if applicable.</p> <p>Monitoring*: <input checked="" type="checkbox"/> Include the reason for the monitoring well, and, <input checked="" type="checkbox"/> The duration of the planned monitoring.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of.</p> <p>Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
---	---	--	---

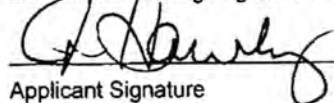
(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), James Hawley

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.



Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

05E 011 AUG 12 2024 2:43

This application is:

☒ approved

☐ partially approved

☐ denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 16th day of August 20 24, for the State Engineer,

State Engineer

By:

Signature

WATER RESOURCE MANAGER I

Title:

Print

KASHYAP PAREKH

Print



FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 07/10/2024

File No.: C-04869 P0D1

Tm No.: 765138

Page 3 of 3

Appendix B

Field Data



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
TT1 @ Sur 7.6	-	10,576	32.296584, -104.110132
TT1 @ 2 HS 7.0	-	8,332	
TT1 @ 4 HS 7.4	-	9,752	
TT1 @ 6 HS 6.0	-	5,704	
TT1 @ 8 HS 4.6	-	3,308	
TT1 @ 10 6.6	-	15,441	
TT1 @ 12 5.0	-	872	
TT1 @ 14 6.0	-	12,541	
TT1 @ 16 5.2	-	940	
TT1 @ 18 6.0	-	12,541	
TT2 @ Sur HS 7.2	-	9,008	32.296159, -104.110266
TT2 @ 2 HS 7.0	-	8,332	
TT2 @ 4 HS 7.0	-	8,332	
TT2 @ 6 HS 5.4	-	4,540	
TT2 @ 8 HS 4.0	-	2,564	
TT2 @ 10 HS 4.8	-	3,588	
TT2 @ 12 5.0	-	872	
TT2 @ 14 4.4	-	684	
TT2 @ 16 3.8	-	520	
TT3 @ Sur HS 9.2	-	25,768	32.295738, -104.110651
TT3 @ 2 HS 6.4	-	7,652	
TT3 @ 4 HS 6.0	-	5,704	
TT3 @ 6 HS 4.0	-	2,564	
TT3 @ 8 7.0	-	1,800	
TT3 @ 10 6.0	-	12,541	
TT3 @ 12 5.4	-	1,028	
TT3 @ 14 5.8	-	1,188	
TT3 @ 16 4.8	-	752	
TT3 @ 18 4.4	-	692	
TT3 @ 20 3.0	-	316	
TT4 @ Sur HS 9.2	-	25,768	32.295576, -104.108981
TT4 @ 2 HS 6.4	-	7,652	
TT4 @ 4 HS 8.0	-	14,768	
TT4 @ 6 6.4	-	15,688	
TT4 @ 8 6.8	-	16,808	
TT4 @ 10 4.4	-	692	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Project: _____
Project Number: _____ Latitude: _____ Longitude: _____

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Whitesnake 20/21 W2BC Fee #1H Battery

Project Number: 20904 Latitude: 32.296191 Longitude: -104.11026

Sample ID	PID/Odor	Chloride Conc.	GPS
SP1 @ 1 HS 7.6	—	11568	32.296357, -104.110166
SP1 @ 2 HS 7.2	—	9792	
SP1 @ 3 HS 7.4	—	10640	
SP1 @ 4 HS 5.6	—	5220	
SP2 @ 1 HS 7.6	—	11568	32.296628, 104.110117
SP2 @ 2 HS 7.0	—	9028	
SP2 @ 3 HS 5.4	—	4468	
SP2 @ 4 HS 5.0	—	4128	
BGS 1 3.8	—	472	
SP3 @ 1 HS 6.8	—	8332	32.296014, -104.110133
SP3 @ 2 HS 7.0	—	9028	
SP3 @ 3 HS 5.2	—	4468	
SP3 @ 4 HS 3.8	—	2516	
SP4 @ 1 HS 6.8	—	8332	32.295558, -104.108982
SP4 @ 2 HS 4.6	—	3520	
SP4 @ 3 4.2	—	624	
SP4 @ 4 4.6	—	744	
SP5 @ 1 HS 6.2	—	6584	32.295739, -104.110236
SP5 @ 2 HS 7.2	—	9792	
SP5 @ 3 HS 6.8	—	8332	
SP5 @ 4 HS 6.4	—	7116	
FL 1 2.8	—	308	
FW 1 2.0	—	188	
FL 2 @ 1 3.8	—	520	
FL 3 @ 1 1.4	—	116	
FL 4 @ 1 HS 6.0	—	6092	
FL 4 @ 2 HS 5.2	—	4468	
FL 4 @ 3 HS 4.6	—	3520	
FL 4 @ 4 3.2	—	384	
FL 5 @ 4 3.2	—	384	
SW 1 3.0	—	348	
NW 1 3.2	—	384	
SW 2 3.4	—	428	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL604 2.4	—	244	
FL704 HS 5.8	—	1410	
FL804 6.0	—	1,256	
FL904 8.2	—	940	
FL1004 HS 3.6	—	2304	
FL1104 HS 6.0	—	6092	
FL1204 2.8	—	308	
FL1304 HS 4.0	—	2,744	
FL1404 HS 5.0	—	4,128	
NW2 2.0	—	348	
FL1504 4.0	—	2304	
FL1604 HS 3.6	—	2400	
FL1704 3.0	—	348	
FL1804 2.8	—	308	
FL1904 HS 6.4	—	7,116	
FL2004 4.0	—	572	
FL2104 5.0	—	872	
FL2204 6.4	—	1440	
FL2304 6.4	—	1440	
FL2404 HS 5.8	—	5288	
FL2504 HS 6.0	—	5,704	
NW4 2.8	—	308	
NW5 3.0	—	348	
NW6 3.0	—	348	
SW3 3.6	—	472	
FL2604 8.0	—	2544	
FL2704 5.6	—	1088	
FL2804 HS 6.0	—	5,704	
FL2904 HS 5.0	—	3,888	
FL3004 7.4	—	2036	
FL3104 HS 4.8	—	3588	
FL3204 7.6	—	2188	
FL3304 HS 5.4	—	4540	
FL3404 5.0	—	872	
FL3504 HS 5.0	—	4128	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 36 @ 4' 3.0	-	348	
FL 37 @ 4' HS 6.4	-	6628	
FL 38 @ 4' HS 6.0	-	5704	
WW1 3.0	-	348	
SW4 3.2	-	384	
NW7 4.6	-	572	
FL 39 @ 4' 7.0	-	1768	
FL 40 @ 4' 4.6	-	744	
FL 41 @ 4' 4.4	-	684	
FL 42 @ 4' 5.0	-	872	
FL 43 @ 4' HS 4.4	-	3048	
FL 44 @ 4' 5.4	-	1012	
FL 45 @ 4' HS 4.4	-	3048	
FL 46 @ 4' 3.8	-	520	
SW5 3.4	-	428	
FL 47 @ 4' 4.0	-	572	
FL 48 @ 4' 7.4	-	2036	
FL 49 @ 4' 6.8	-	1652	
SW6 3.8	-	520	
FL 50 @ 4' HS 6.0	-	5704	
FL 51 @ 4' HS 4.0	-	2564	
FL 52 @ 4' HS 6.4	-	6628	
FL 53 @ 4' HS 7.0	-	8332	
FL 54 @ 4' 3.0	-	348	
FL 55 @ 4' HS 6.4	-	6628	
FL 56 @ 4' 2.0	-	6364	
EW2 2.0	-	188	
FL 57 @ 4' 3.4	-	428	
FL 58 @ 4' 3.0	-	348	
FL 59 @ 4' HS 3.6	-	2136	
FL 60 @ 4' HS 7.0	-	8332	
FL 61 @ 4' HS 6.0	-	5704	
FL 62 @ 4' 2.8	-	188	
WW2 3.8	-	520	
NW8 3.8	-	520	
FL 63 @ 4' 3.8	-	520	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

 Project: _____
 Project Number: _____ Latitude: _____ Longitude: _____

Sample ID	PID/Odor	Chloride Conc.	GPS
SW7	2.0	188	
FL64 @ 4'	7.0	1768	
FL65 @ 4'	7.2	1896	
FL66 @ 4'	6.2	1304	
FL67 @ 4'	6.0	1256	
FL68 @ 4'	6.2	1244	
FL69 @ 4'	6.0	1256	
FL70 @ 4'	4.6	744	
FL71 @ 4'	3.2	384	
FL72 @ 4'	6.8	1652	
WW3	3.2	472	
EW3	3.4	428	
FL73 @ 4'	7.0	1768	
FL74 @ 4'	HS 6.0	5704	
FL75 @ 4'	7.8	2356	
FL76 @ 4'	3.4	428	
FL77 @ 4'	8.0	2544	
FL78 @ 4'	4.6	744	
FL79 @ 4'	6.8	1652	
FL80 @ 4'	7.6	2188	
FL81 @ 4'	HS 4.2	2800	
FL82 @ 4'	8.0	2544	
FL83 @ 4'	HS 4.8	3588	
FL84 @ 4'	HS 5.6	4900	
FL85 @ 4'	3.6	472	
EW5	3.4	428	
EW4	3.6	472	
FL86 @ 4'	4.2	624	
FL87 @ 4'	3.0	348	
FL88 @ 4'	4.8	804	
FL89 @ 4'	HS 4.2	2800	
FL90 @ 4'	HS 5.4	4546	
SW8	3.2	384	
SW9	3.0	348	
EW6	3.6	472	
EW7	3.6	472	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Whitesnake 20/21 W2BC Fee #1H Battery

Project Number: 20904 Latitude: 32.296191 Longitude: -104.11026

Sample ID	PID/Odor	Chloride Conc.	GPS
FL 91 @ 4' HS 4.2 -		2,928	
FL 92 @ 4' HS 4.4 -		3,452	
FL 93 @ 4' HS 5.0 -		4,428	
FL 94 @ 4' HS 5.0 -		4,428	
FL 95 @ 4' HS 2.0 -		1,072	
FL 96 @ 4' HS 5.0 ✓		3,888	
FL 97 @ 4' HS 4.8 -		3,588	
FL 98 @ 4' HS 4.2 -		3,500	
FL 99 @ 4' HS 5.0 -		3,888	
FL 100 @ 4' HS 5.2 -		4,204	
FL 101 @ 4' HS 6.8 -		7,716	
FL 102 @ 4' HS 3.6 -		2,136	
FL 103 @ 4' HS 6.8 -		7,716	
FL 104 @ 4' HS 5.6 -		4,900	
FL 105 @ 4' HS 7.0 -		8,332	
FL 106 @ 4' HS 7.0 -		8,332	
FL 107 @ 4' HS 9.0 -		2,564	
FL 108 @ 4' HS 7.0 -		8,332	
FL 109 @ 4' HS 6.4 -		6,623	
FL 110 @ 4' HS 6.8 -		7,716	
W/L 4 3.0 -		314	
FL 111 @ 4' HS 7.0 -		9,064	
FL 112 @ 4' HS 6.8 -		6,680	
FL 113 @ 4' HS 6.6 -		7,668	
FL 114 @ 4' HS 7.2 -		9,884	
FL 115 @ 4' HS 7.0 -		9,064	
FL 116 @ 4' HS 7.2 ✓		9,884	
FL 117 @ 4' HS 7.2 ✓		9,884	
FL 118 @ 4' HS 7.2 -		9,884	
FL 119 @ 4' HS 7.0 -		9,064	
FL 120 @ 4' HS 6.8 -		6,680	
FL 121 @ 4' HS 4.8 ✓		3,588	
FL 122 @ 4' HS 6.0 -		6,016	
FL 123 HS 7.0		9,064	
FL 124 HS 7.0		9,064	
FL 125 HS 6.8		6,680	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



eTECH Sample Log

Date: _____

Project: Whitesnake 20/21 W2BC Fee #1H Battery

Project Number: 20904

Latitude: 32.296191

Longitude: -104.11026

Sample ID	PID/Odor	Chloride Conc.	GPS
FL12604 HS 6.6	—NoV	7.668	
FL12704 HS 5.2	—	4.384	
FL12804 HS 6.0	—	6.016	
TT1 Blank Env 7.2	—	1.928	
TT1 Blank NW 6.6	—	1.568	
TT1 Blank SW 7.0	—	1.800	
FL12904 3.0	—	3.52	
FL13004 HS 7.0	—	9.064	
FL13104 HS 6.4	—	7.064	
FL13204 HS 7.0	—	9.064	
FL13304 HS 7.4	—	10.800	
FL13404 HS 7.0	—	9.064	
FL13504 HS 4.6	—	3.448	
FL13604 HS 4.2	—	2.688	
FL13704 HS 3.8	—	1.704	
SW10 5.0	—	3.52	
WW5 3.2	—	1.872	
FL13804 HS 6.8	—	8.332	
FL13904 HS 7.0	—	9.064	
FL14004 HS 4.6	—	3.448	
FL14104 3.4	—	4.36	
FL14204 HS 3.0	—	1.704	
FL14304 HS 2.8	—	1.536	
FL14404 HS 4.0	—	2.508	
FL14504 HS 6.8	—	8.332	
FL14604 HS 5.0	—	4.048	
FL14704 HS 3.8	—	2.468	
FL14804 HS 6.6	—	7.668	
FL14904 HS 3.2	—	1.984	
FL15004 HS 2.2	—	1.072	
FL15104 HS 2.6	—	1.384	
FL15204 HS 6.6	—	7.668	
EW8 5.2	—	9.52	
EW8 3.8	—	5.28	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Whitesnake 20/21 W2BC Fee #1H Battery

Project Number:	20904	Latitude:	32.296191	Longitude:	-104.11026
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[illegible]

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

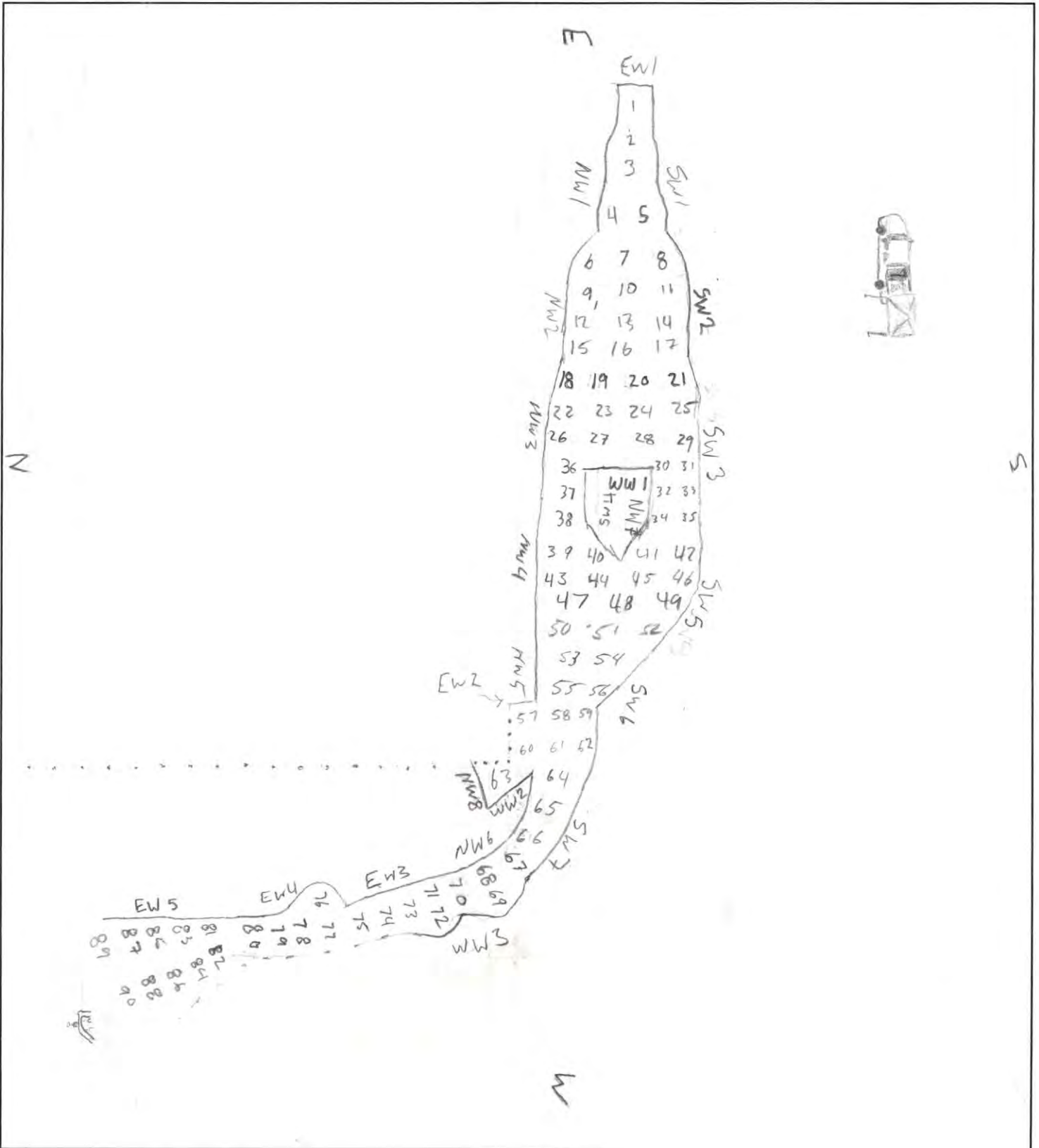


Field Map

Project Number: _____

Project: _____

Date: _____





Project Number: _____

Project: _____

Date: _____

EW3	73	ENG										
	74											
	75											
76	77	153	154	155	156	157	158	159	160	161		
78		143	144	145	146	147	148	149	150	151	137	
79		136	137	138	139	140	141	142	136			
		129	130	131	132	133	134	135				
EW4	80	123	124	125	126	127	128	SW10				
	81	87	117	118	119	120	121	122				
	83	84	111	112	113	114	115	116				
	85	86	106	107	108	109	110					
	87	88	101	102	103	104	105					
EW5	89	90	96	97	98	99	100					
		91	92	93	94	95						

WWS

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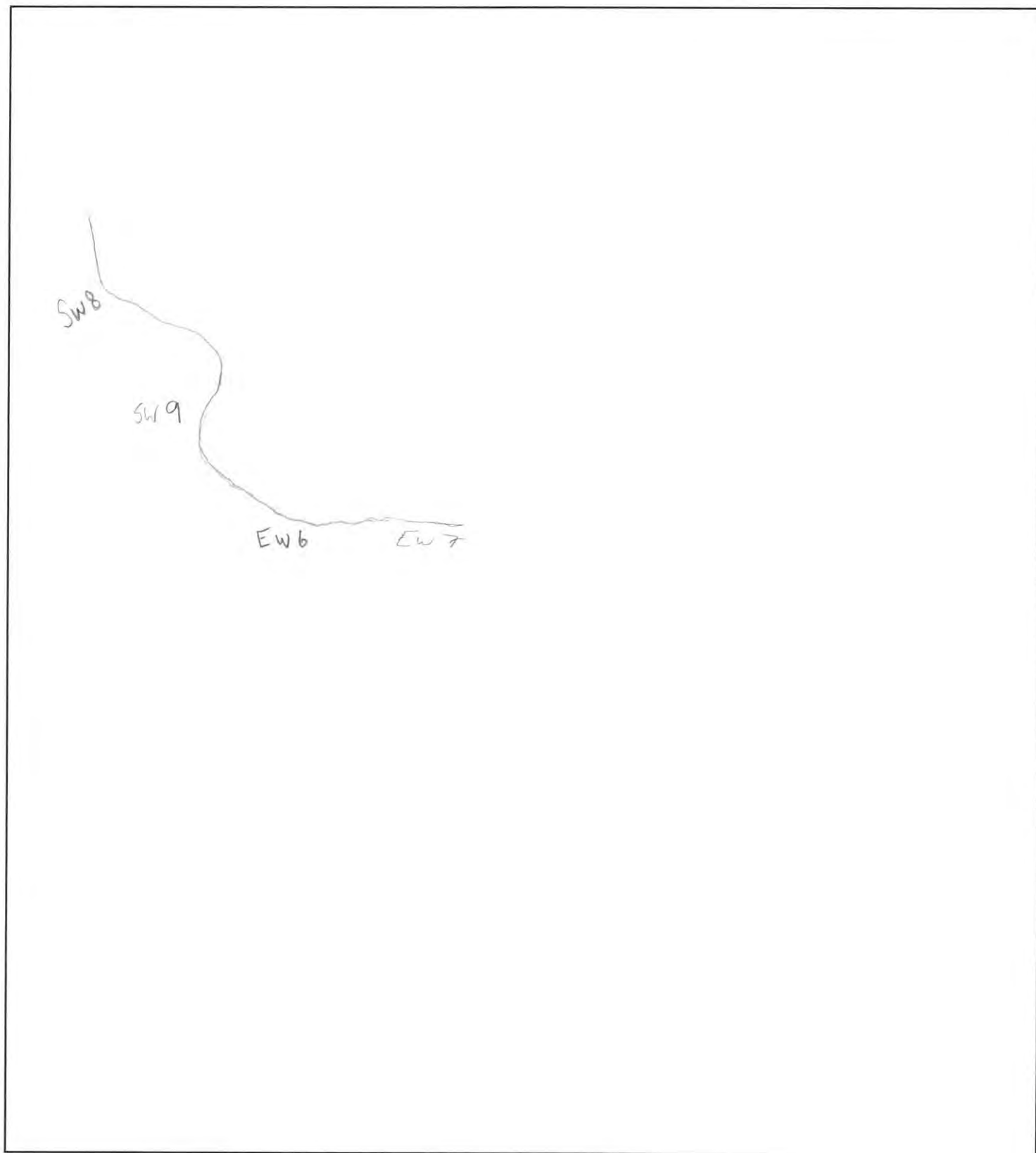


Field Map

Project Number: _____

Project: Whitesnake 20121 Fee 1H Battery

Date: _____



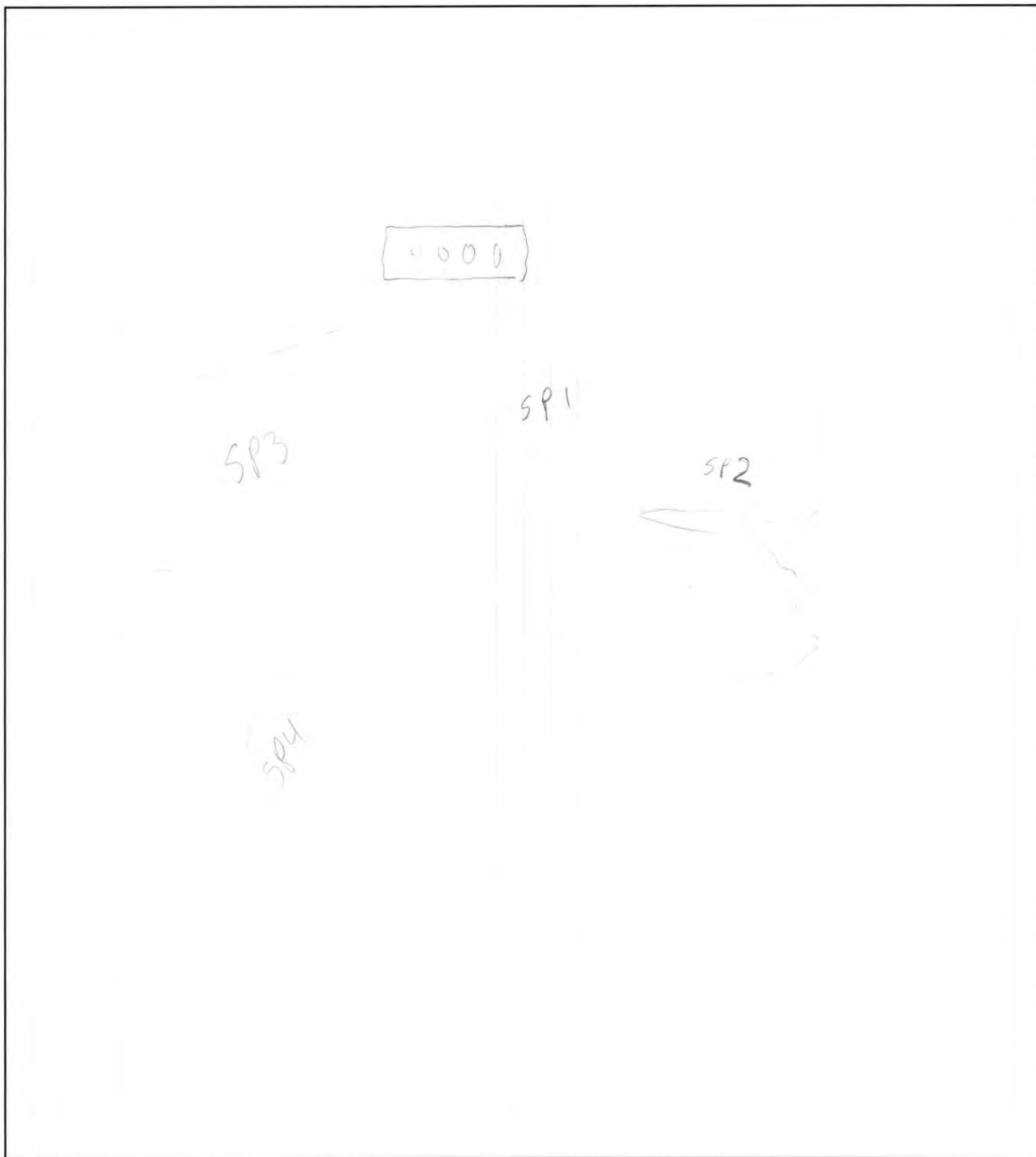


Field Map

Project Number: 20904

Project: Whitesnake 20/21 W2BC Fee #1H Battery

Date: _____



Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: West	
Coordinates: 32.296138,-104.108792	
Date Taken: 7/30/2024	
Photo Description: Aerial view of the affected area.	

Photo Number: 2	
Photo Direction: East	
Coordinates: 32.296134,-104.111033	
Date Taken: 7/30/2024	
Photo Description: Aerial view of the affected area.	

Photographic Log

Photo Number: 3	<div><div>WGS84 ±16R32.29584, -104.110403065E79</div><div>30Jul24 10:22 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:22:05</div></div>
Photo Direction: East	
Photo Description: View of the affected area	

Photo Number: 4	<div><div>WGS84 ±16R32.29551, -104.110333057N9</div><div>30Jul24 10:23 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:23:30</div></div>
Photo Direction: North	
Photo Description: View of the affected area	

Photographic Log




Photo Number: 5	<div><div><div>WGS84 ±16ft</div><div>32.29540, -104.11025</div><div><div><div><div></div><div>3056</div><div></div></div><div><div><div></div><div>±17</div><div></div></div><div>N12</div></div></div></div><div>30Jul24 10:23 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:23:48</div></div></div>
Photo Direction: North	
Photo Description: View of the affected area	

Photo Number: 6	<div><div><div>WGS84 ±16ft</div><div>32.29541, -104.11005</div><div><div><div><div></div><div>3055</div><div></div></div><div><div><div></div><div>±16</div><div></div></div><div>N350</div></div></div></div><div>30Jul24 10:24 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:24:22</div></div></div>
Photo Direction: North	
Photo Description: View of the affected area	

Photographic Log

Photo Number: 7	 <p>30Jul24 10:28 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:28:11</p>
Photo Direction: West	
Photo Description: View of the affected area	

Photo Number: 8	 <p>30Jul24 10:29 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:29:56</p>
Photo Direction: South-Southwest	
Photo Description: View of the affected area	

Photographic Log


Photo Number: 9	 <p>30Jul24 10:30 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:30:34</p>
Photo Direction: South	
Photo Description: View of the affected area	

Photo Number: 10	 <p>30Jul24 10:31 MOC Whitesnake 20/21 W2BC Fee #1H Battery Loving NM 88256, United States © 30-Jul-24 10:31:53</p>
Photo Direction: Southeast	
Photo Description: View of the affected area	

Photographic Log

Photo Number: 11	
Photo Direction: West-Northwest	
Photo Description: View of the affected area	

Photo Number: 12	
Photo Direction: West	
Photo Description: View of the affected area	

Photographic Log


Photo Number: 13	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 14	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 15	 <p>Oct 15, 2024 at 2:35:07 PM +32.295342,-104.110261 ±30.00m</p>
Photo Direction: North	
Photo Description: View of the excavated area.	

Photo Number: 16	 <p>Oct 15, 2024 at 2:35:44 PM +32.295599,-104.109740 ±5.00m</p>
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Appendix D

Laboratory Analytical Reports (Soil)



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

August 23, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITESNAKE 20/21 W2BC FEE #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 14:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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, appearing to read "Mike Snyder", is written in a cursive style.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 0' (H245127-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67	
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31	
Total BTX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 84.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 2' (H245127-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10800	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: WHITESNAKE 20/21 W2BC FEE #1H BAT
 Project Number: 20910
 Project Location: MEWBOURNE -32.296191-104.11026

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 1 @ 4' (H245127-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67	
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 6' (H245127-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 8' (H245127-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3920	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 10' (H245127-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1790	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 1 @ 12' (H245127-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: WHITESNAKE 20/21 W2BC FEE #1H BAT
 Project Number: 20910
 Project Location: MEWBOURNE -32.296191-104.11026

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 2 @ 0' (H245127-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	08/23/2024	ND	432	108	400	3.64	QM-07	

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	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 2' (H245127-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10200	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 4' (H245127-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12400	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 6' (H245127-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4760	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/22/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/22/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 8' (H245127-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 10' (H245127-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 2 @ 12' (H245127-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 0' (H245127-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43	GC-NC	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40	GC-NC	
Total Xylenes*	0.283	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	46400	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	13.4	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	904	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	190	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 2' (H245127-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6720	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	12.5	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	30.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 4' (H245127-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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



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Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 6' (H245127-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 8' (H245127-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: WHITESNAKE 20/21 W2BC FEE #1H BAT
 Project Number: 20910
 Project Location: MEWBOURNE -32.296191-104.11026

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 3 @ 10' (H245127-20)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.06	103	2.00	4.67		
Toluene*	<0.050	0.050	08/22/2024	ND	1.98	98.8	2.00	4.43		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.01	101	2.00	4.40		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	5.95	99.1	6.00	4.31		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	210	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	3.87	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 3 @ 12' (H245127-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/22/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 4 @ 0' (H245127-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/22/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	0.406	0.150	08/22/2024	ND	7.03	117	6.00	2.47	GC-NC1
Total BTEX	0.464	0.300	08/22/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	71200	16.0	08/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	952	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	274	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: WHITESNAKE 20/21 W2BC FEE #1H BAT
 Project Number: 20910
 Project Location: MEWBOURNE -32.296191-104.11026

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 4 @ 2' (H245127-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/22/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.03	117	6.00	2.47	
Total BTEX	<0.300	0.300	08/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	08/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	10.1	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 82.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 4 @ 4' (H245127-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/22/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/22/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/22/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426		
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND						

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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



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

Analytical Results For:

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

Received: 08/22/2024
 Reported: 08/23/2024
 Project Name: WHITESNAKE 20/21 W2BC FEE #1H BAT
 Project Number: 20910
 Project Location: MEWBOURNE -32.296191-104.11026

Sampling Date: 08/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: TT 4 @ 6' (H245127-25)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 4 @ 8' (H245127-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 4 @ 10' (H245127-27)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/23/2024	ND	2.30	115	2.00	3.23		
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21		
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66		
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47		
Total BTEX	<0.300	0.300	08/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	08/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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



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

Analytical Results For:

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

Received:	08/22/2024	Sampling Date:	08/19/2024
Reported:	08/23/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE -32.296191-104.11026		

Sample ID: TT 4 @ 12' (H245127-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2024	ND	2.30	115	2.00	3.23	
Toluene*	<0.050	0.050	08/23/2024	ND	2.31	115	2.00	3.21	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.36	118	2.00	2.66	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	7.03	117	6.00	2.47	
Total BTEX	<0.300	0.300	08/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	08/23/2024	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	08/23/2024	ND	197	98.6	200	0.426	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	198	98.9	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Notes and Definitions

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

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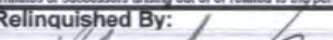
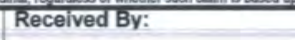

A handwritten signature in black ink, appearing to read "Mike Snyder", written over a horizontal line.

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

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

[illegible]

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Relinquished By: 		Date: 8-22-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Time: 1457				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				RUSH SAMPLES - 24 H	
Delivered By: (Circle One)		Observed Temp. °C: -1.2°C		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -1.8°C		Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			
						Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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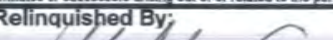
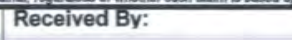

Relinquished By:		Date: 8-22-24		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
Time: 1457		Time:		All Results are emailed. Please provide Email address: pm@etechenv.com			
Relinquished By:		Date:		Received By:		REMARKS:	
Time:		Time:				RUSH SAMPLES - 24 H	
Delivered By: (Circle One)		Observed Temp. °C: -1.2°C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) AD	
Sampler - UPS - Bus - Other:		Corrected Temp. °C: -1.8°C		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C:	
				Thermometer ID #140			
				Correction Factor -0.6°C			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 8-22-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: 1457						All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				RUSH SAMPLES - 24 H	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		-1.2°C		Cool Intact		(Initials)	
		Corrected Temp. °C		<input type="checkbox"/> Yes <input type="checkbox"/> No			
		-1.8°C		<input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
						Thermometer ID #140 Correction Factor -0.6°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

August 27, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITESNAKE 20/21 W2BC FEE #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/24 14:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/26/2024	Sampling Date:	08/19/2024
Reported:	08/27/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.296191-104.11026		

Sample ID: TT 1@14' (H245176-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2024	ND	1.96	98.0	2.00	5.24		
Toluene*	<0.050	0.050	08/26/2024	ND	1.91	95.4	2.00	5.14		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	1.92	96.1	2.00	4.58		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	5.70	95.0	6.00	4.63		
Total BTX	<0.300	0.300	08/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1170	16.0	08/27/2024	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	08/26/2024	ND	199	99.6	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/26/2024	ND	207	104	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	08/26/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/26/2024	Sampling Date:	08/19/2024
Reported:	08/27/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.296191-104.11026		

Sample ID: TT 2@14' (H245176-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/26/2024	ND	1.96	98.0	2.00	5.24		
Toluene*	<0.050	0.050	08/26/2024	ND	1.91	95.4	2.00	5.14		
Ethylbenzene*	<0.050	0.050	08/26/2024	ND	1.92	96.1	2.00	4.58		
Total Xylenes*	<0.150	0.150	08/26/2024	ND	5.70	95.0	6.00	4.63		
Total BTEX	<0.300	0.300	08/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	08/27/2024	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	08/27/2024	ND	199	99.6	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	207	104	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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

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




Celey D. Keene, Lab Director/Quality Manager

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

Page 1 of 1

[illegible]

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Relinquished By: 		Date: 8-26-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1451				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				RUSH SAMPLES - 24 HOUR	
Delivered By: (Circle One)		Observed Temp. °C -6.8		Sample Condition		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -7.4		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				CHECKED BY: (Initials) 		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
						Thermometer ID #140 Correction Factor -0.6°C	
						Observed Temp. °C Corrected Temp. °C	



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

August 28, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITESNAKE 20/21 W2BC FEE #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/27/2024	Sampling Date:	08/19/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.296191-104.11026		

Sample ID: TT 1 @ 16' (H245212-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2024	ND	1.98	98.9	2.00	5.95		
Toluene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.32		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.90		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.16	103	6.00	7.39		
Total BTX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	08/28/2024	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	08/27/2024	ND	209	104	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/27/2024	Sampling Date:	08/19/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.296191-104.11026		

Sample ID: TT 2 @ 16' (H245212-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2024	ND	1.98	98.9	2.00	5.95		
Toluene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.32		
Ethylbenzene*	<0.050	0.050	08/27/2024	ND	2.02	101	2.00	7.90		
Total Xylenes*	<0.150	0.150	08/27/2024	ND	6.16	103	6.00	7.39		
Total BTEX	<0.300	0.300	08/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/28/2024	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	08/27/2024	ND	209	104	200	3.87	
DRO >C10-C28*	<10.0	10.0	08/27/2024	ND	216	108	200	5.63	
EXT DRO >C28-C36	<10.0	10.0	08/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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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

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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*=Accredited Analyte

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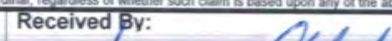

A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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

[illegible]

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

Relinquished By: 		Date: 8-27-24		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: 1455				All Results are emailed. Please provide Email address: pm@etechenv.com	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:				RUSH SAMPLES - 24 HOUR	
Delivered By: (Circle One)		Observed Temp. °C -3.8		Sample Condition Cool Intact		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C -4.4		CHECKED BY: (Initials) 		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Thermometer ID #140 Correction Factor -0.6°C <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	



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

August 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: WHITESNAKE 20/21 W2BC FEE #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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
 LANCE CRENSHAW
 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received:	08/28/2024	Sampling Date:	08/19/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	WHITESNAKE 20/21 W2BC FEE #1H BAT	Sampling Condition:	Cool & Intact
Project Number:	20910	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.296191-104.11026		

Sample ID: TT 1@18' (H245242-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.19	110	2.00	2.05	
Toluene*	<0.050	0.050	08/28/2024	ND	2.24	112	2.00	0.850	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.28	114	2.00	0.786	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.80	113	6.00	0.630	
Total BTX	<0.300	0.300	08/28/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/29/2024	ND	448	112	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	08/29/2024	ND	217	108	200	1.10	
DRO >C10-C28*	<10.0	10.0	08/29/2024	ND	219	110	200	3.68	
EXT DRO >C28-C36	<10.0	10.0	08/29/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

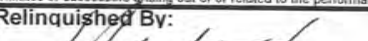
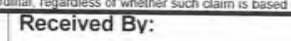

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

Relinquished By: 		Date: 08-28-24 Time: 1448		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		All Results are emailed. Please provide Email address: pm@etechnv.com	
		Time:				REMARKS:	
						RUSH SAMPLES - 24 HOUR	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	
				CHECKED BY: (Initials) 		Thermometer ID #140 Correction Factor -0.6°C	
						Corrected Temp. °C	

Appendix E

Laboratory Analytical Reports (Groundwater)



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

September 03, 2024

CONNER WALKER

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: CWMS WHITESNAKE RISER

Enclosed are the results of analyses for samples received by the laboratory on 08/28/24 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

MEWBOURNE OIL COMPANY
CONNER WALKER
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

Received:	08/28/2024	Sampling Date:	08/28/2024
Reported:	09/03/2024	Sampling Type:	Water
Project Name:	CWMS WHITESNAKE RISER	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: GW 1@22 (H245244-01)

Chloride, SM4500Cl-B (Water)		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	6000	4.00	08/29/2024	ND	108	108	100	3.77	
TDS 160.1		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	12600	15.0	08/30/2024	13.0	518	104	500	2.13	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

Relinquished By: <i>Jeff Brown</i>		Date: <i>8-21-29</i>	Received By: <i>S. Rodriguez</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:		Time: <i>1458</i>	Received By:		REMARKS:	
Delivered By: (Circle One)		Date:	CHECKED BY: (Initials) <i>SR</i>		Turnaround Time: <i>Standard</i> <input type="checkbox"/> <i>Rush</i> <input checked="" type="checkbox"/> <i>3 day</i>	
Sampler - UPS - Bus - Other:		Observed Temp. °C <i>A.32</i>	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Thermometer ID #140 Correction Factor -0.6°C	
		Corrected Temp. °C <i>18.72</i>			Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Observed Temp. °C Corrected Temp. °C	

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

Appendix F

Regulatory Correspondence

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375068
Date: Monday, August 19, 2024 12:12:07 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/23/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez
432-813-1036

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375072
Date: Monday, August 19, 2024 12:15:53 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/26/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez (432)813-1062

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375073
Date: Monday, August 19, 2024 12:17:58 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/27/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez (432)813-1062

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375075
Date: Monday, August 19, 2024 12:20:32 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/28/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez (432)813-1036

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375078
Date: Monday, August 19, 2024 12:22:15 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/29/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez (432)813-1036

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: OCDOnline@state.nm.us
To: [Jeff Broom](#)
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 375081
Date: Monday, August 19, 2024 12:24:20 PM

To whom it may concern (c/o Jeff Broom for MEWBOURNE OIL CO),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2422659329.

The sampling event is expected to take place:

When: 08/30/2024 @ 07:00

Where: C-20-23S-28E 0 FNL 0 FEL (32.29585,-104.11035)

Additional Information: Dominic Casarez (432)813-1036

Additional Instructions: From Start Point: 32.297937, -104.105132 (US-HWY 285 and E London Rd) Head W on W London R for .43 miles, S for .10 miles, E across pad for .09 miles to arrive at release: White Snake 20-21 W2BC Fee #1H Battery (GPS: 32.296049, -104.110200)

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- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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QUESTIONS

Action 396395

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	396395
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2422659329
Incident Name	NAPP2422659329 CWMS WHITESNAKE RISER @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.

Site Name	CWMS Whitesnake Riser
Date Release Discovered	07/30/2024
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 543 BBL Recovered: 66 BBL Lost: 477 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 396395

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	396395
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	
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.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 08/13/2024

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QUESTIONS, Page 3

Action 396395

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	396395
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1000 (ft.) and ½ (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	71200
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1230
GRO+DRO	(EPA SW-846 Method 8015M)	952
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.5
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	08/02/2024
On what date will (or did) the final sampling or liner inspection occur	11/15/2024
On what date will (or was) the remediation complete(d)	11/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	86330
What is the estimated volume (in cubic yards) that will be reclaimed	12790
What is the estimated surface area (in square feet) that will be remediated	86330
What is the estimated volume (in cubic yards) that will be remediated	12790

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 396395

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	396395
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff Facility
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 10/28/2024
--	---

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 396395

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	396395
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 396395

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	396395
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	375081
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/30/2024
What was the (estimated) number of samples that were to be gathered	390
What was the sampling surface area in square feet	76000

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 396395

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	396395
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written and with the following conditions; 1. Sampling frequency increase from 200 to 500 square feet per one (1) 5-point composite is approved for the excavation floor sampling. Sidewall confirmation sampling will remain at 200 square feet per one (1) 5-point composite. 2. Mewbourne has 90-days (January 30, 2025) to submit to OCD its appropriate or final remediation closure report.	11/1/2024