

Amended Remediation Summary & Soil Closure Request

Mewbourne Oil Company Goose 29/28 W2BA St Com #1H


Eddy County, New Mexico
Unit Letter "B", Section 29, Township 23 South, Range 27 East
Latitude 32.282179° North, Longitude 104.211361° West
NMOCD Reference No. nAPP2432659450

Prepared By:

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October 30, 2025


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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 (Mewbourne), has prepared this *Amended Remediation Summary & Soil Closure Request* for the release site known as the Goose 29/28 W2BA St Com #1H (henceforth, "Site"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.282179° Longitude: -104.211361°

Provided GPS are in WGS84 format.

| | |
|---|--|
| Site Name: <u>Goose 29/28 W2BA St Com #1H</u> | Site Type: <u>Tank Battery</u> |
| Date Release Discovered: <u>11/11/2024</u> | API # (if applicable): <u>30-015-43452</u> |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| "B" | 29 | 23S | 27E | Eddy |

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

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) <u>11</u> | Volume Recovered (bbls) <u>0</u> |
| | 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: Mechanical failure of equipment on location resulting in overpressurization and a tank battery fire. | | |

Initial Response

| |
|--|
| <input checked="" type="checkbox"/> The source of the release has been stopped. |
| <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. |
| <input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices |
| <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. |

Previously submitted portions of the New Mexico Oil Conservation Division (NMOCD) Form C-141 are available in the NMOCD Permitting 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)? | Between 100 and 500 (ft.) |
| What method was used to determine the depth to groundwater? | NM OSE iWaters Database Search |
| 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 1,000 (ft.) and ½ (mi.) |
| An occupied permanent residence, school, hospital, institution or church? | Between 1 and 5 (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 and 5 (mi.) |
| A wetland? | Between 1,000 (ft.) and ½ (mi.) |
| A subsurface mine? | Greater than 5 (mi.) |
| A (non-karst) unstable area? | Between 1,000 (ft.) and ½ (mi.) |
| Categorize the risk of this well/site being in a karst geology. | High |
| 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 type="checkbox"/> Yes <input checked="" 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 Site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided 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 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

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

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

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

‡ Reclamation Standards apply only to the top 4' of soil in non-production areas. Section 19.15.29.13 D.(1) NMAC.

4.0 INITIAL SITE ASSESSMENT

On November 11, 2024, after receiving notification of a tank battery fire at the Site, Mewbourne representatives conducted an initial site assessment. During a visual inspection of the facility, it was observed that direct and indirect heat from the fire had damaged an on-site storage tank and a section of the containment area liner. Since the integrity and impermeability of the liner had been compromised, it was determined that sampling of the underlying soil was required to evaluate the extent of potential impacts.

Following the initial site assessment, the fire-damaged storage tank and the compromised section of the liner were removed, and the affected area of the tank battery facility was pressure-washed and steam-cleaned to remove residual soot and staining.

On November 27, 2024, a delineation event was conducted by a third-party environmental contractor that is no longer affiliated with the Site. During the delineation event, a test trench (TT1) was advanced within the inferred margins of the release to determine the vertical extent of impacted soil. Based on field observations, the trench was advanced to a total depth of six (6) inches bgs. A delineation soil sample (TT1 @ 0-6") was collected from the trench and submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards.

The footprint of the fire-damaged tank and the location of the test trench are depicted in Figure 3, "Sample Location Map."

5.0 REMEDIATION ACTIVITIES SUMMARY

| | |
|--|---|
| 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? | 11/27/2024 |
| On what date will (or did) the final sampling or liner inspection occur? | 2/5/2025 |
| On what date will (or was) the remediation complete(d)? | 1/7/2025 |
| What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed? | 800 |
| What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed? | 15 |
| What was the total surface area (sq. ft.) that has or will be remediated? | 800 |
| What was the total volume (cy) that has or will be remediated? | 8 |
| 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 November 27, 2024, a surface scrape of the affected area was performed by the aforementioned third-party environmental contractor. Eight (8) composite confirmation soil samples (B1 @ 0-6" through B4 @ 0-6", NW @ 0-6", EW @ 0-6", SW @ 0-6", and WW @ 0-6"), each representing no more than 200 square feet, were collected from the scraped area and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in a majority of the submitted soil samples, with the exception of samples B1 @ 0-6", NW @ 0-6", and WW @ 0-6", which exceeded the Closure Criterion for TPH.

Following sample collection, the scraped area was backfilled with non-impacted material, the containment liner was repaired to restore impermeability, and the tank battery was returned to service.

On December 13, 2024, the contractor returned to the Site. Based on laboratory analytical results, the liner was cut and temporarily rolled back to facilitate excavation in the areas characterized by soil samples NW @ 0-6" and WW @ 0-6". Two (2) composite confirmation samples (NW and WW) were collected from the newly excavated area and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and Reclamation Standards in each of the submitted soil samples.

Following sample collection, the excavated area was backfilled with non-impacted material, and the liner was repaired to restore impermeability.

On January 7, 2025, the contractor returned to the Site. Based on laboratory analytical results, the liner was again cut and temporarily rolled back to facilitate excavation in the area characterized by soil sample B1 @ 0-6". The affected area was excavated vertically to one (1) foot bgs and horizontally to the areas characterized by soil samples NW, EW @ 0-6", SW @ 0-6", and WW. A composite confirmation sample (B1 @ 1') was collected from the base of the excavated area (including subsamples at floor level along the sidewalls) and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the sample were below the applicable NMOCD Closure Criteria and Reclamation Standards.

Following sample collection, the excavated area was backfilled with non-impacted material, and the liner was again repaired to restore impermeability.

Summary of Soil Sampling Events

| Constituent | Highest Observed Concentration (mg/kg) | Sample ID | Sample Date | Sample Depth (ft bgs) | Soil Status |
|-------------|--|-----------------------|--------------------------|-----------------------|---------------------|
| Chloride | 464 | WW @ 0-6" | 11/27/2024 | 0–0.5 | Excavated |
| TPH | 265 | NW @ 0-6" | 11/27/2024 | 0–0.5 | Excavated |
| GRO+DRO | 237 | NW @ 0-6" | 11/27/2024 | 0–0.5 | Excavated |
| BTEX | <0.300 | All submitted samples | 11/27 & 12/13/24; 1/7/25 | 0–1 | In-Situ & Excavated |
| Benzene | <0.050 | All submitted samples | 11/27 & 12/13/24; 1/7/25 | 0–1 | In-Situ & Excavated |

Please reference Table 1 for additional information.

The final dimensions of the excavated area were approximately 16 feet in length, 12.5 feet in width, and one (1) foot in depth. During the course of remediation activities, the third-party contractor exported approximately 8 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported a commensurate volume of locally sourced, non-impacted material to the Site for use as backfill.

Soil sample locations and the extents of the scraped and excavated areas are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. General photographs of the Site are provided in Appendix B. Laboratory analytical reports are provided in Appendix C.

6.0 REGULATORY CORRESPONDENCE

On February 7, 2025, based on laboratory analytical results and field activities conducted to that point, Mewbourne submitted a *Remediation Summary & Soil Closure Request* (Closure Request) to the NMOCD, requesting regulatory closure of the release. The Closure Request was subsequently denied by the NMOCD due to discrepancies and deficiencies identified in the report. Mewbourne later retained Etech to prepare a revised submittal addressing the NMOCD's concerns.

Copies of all regulatory correspondence are provided in Appendix D. An addendum containing responses to questions regarding the Closure Request posed by the NMOCD in the rejection letter dated February 11, 2025, is provided as Appendix E.

7.0 SOIL CLOSURE 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 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 |
| 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 checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| What was the total surface area (sq. ft.) remediated? | 800 | |
| What was the total volume (cy) remediated? | 8 | |

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

Based on laboratory analytical results and field activities conducted to date, Etech recommends that Mewbourne provide copies of this *Amended Remediation Summary & Soil Closure Request* to the appropriate agencies and request remediation closure approval be granted to the Site.

8.0 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 checked="" type="checkbox"/> Yes | <input 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 (in square feet) reclaimed? | 800 | |
| What was the total volume (in cubic yards) reclaimed? | 8 | |

Upon receiving laboratory analytical results from confirmation soil samples, the scraped and excavated areas were backfilled with locally sourced, non-impacted, "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable and to fit the needs of the facility.

The release was limited to the containment area of an active tank battery and did not impact the adjacent pasture. Final restoration, reclamation, and revegetation will be conducted upon decommissioning and abandonment of the facility, in accordance with Section 19.15.29.13 NMAC.

9.0 LIMITATIONS

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

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

10.0 DISTRIBUTION

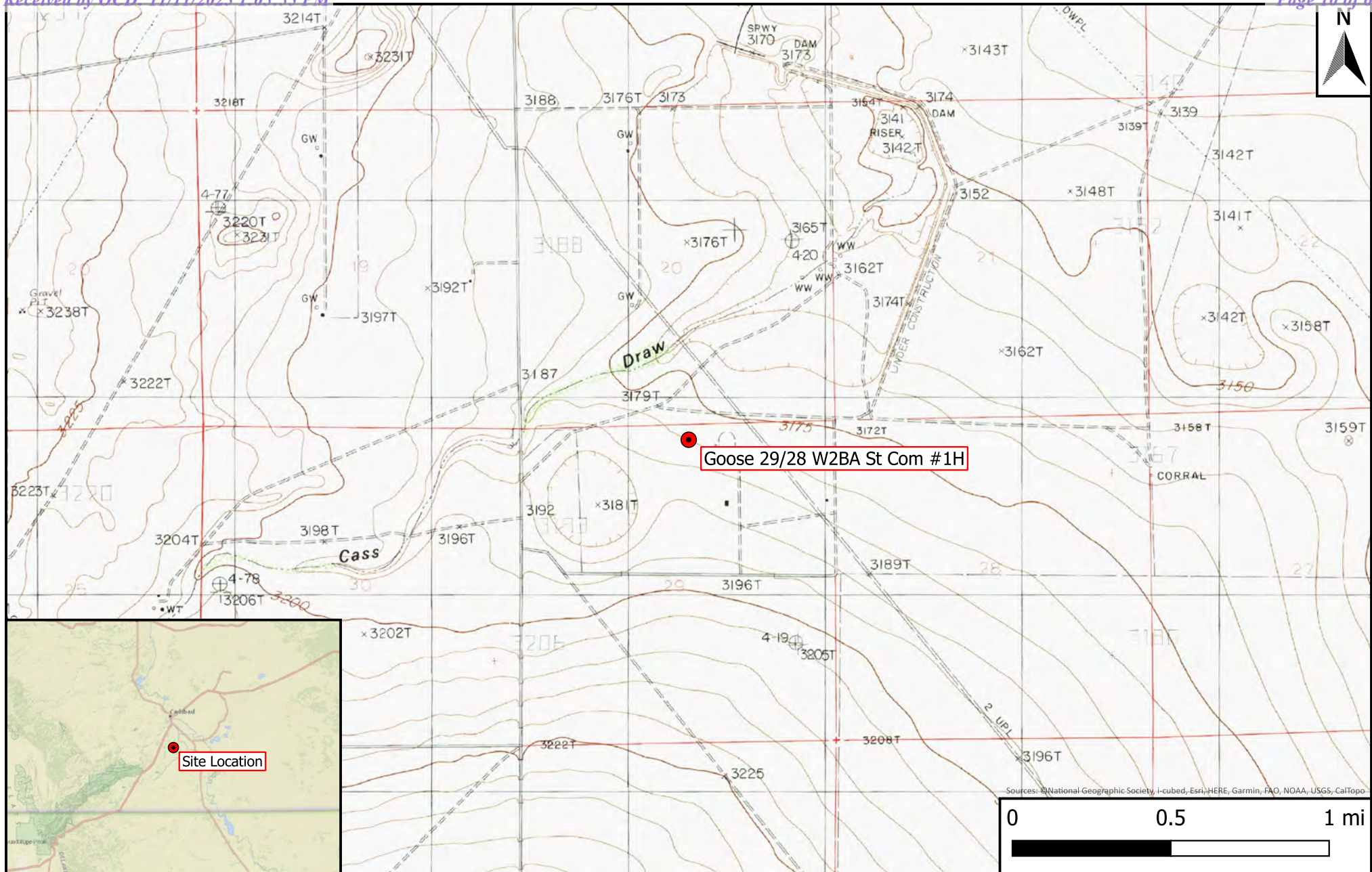
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

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
 Goose 29/28 W2BA St Com #1H
 GPS: 32.282179, -104.211361
 Eddy County, New Mexico



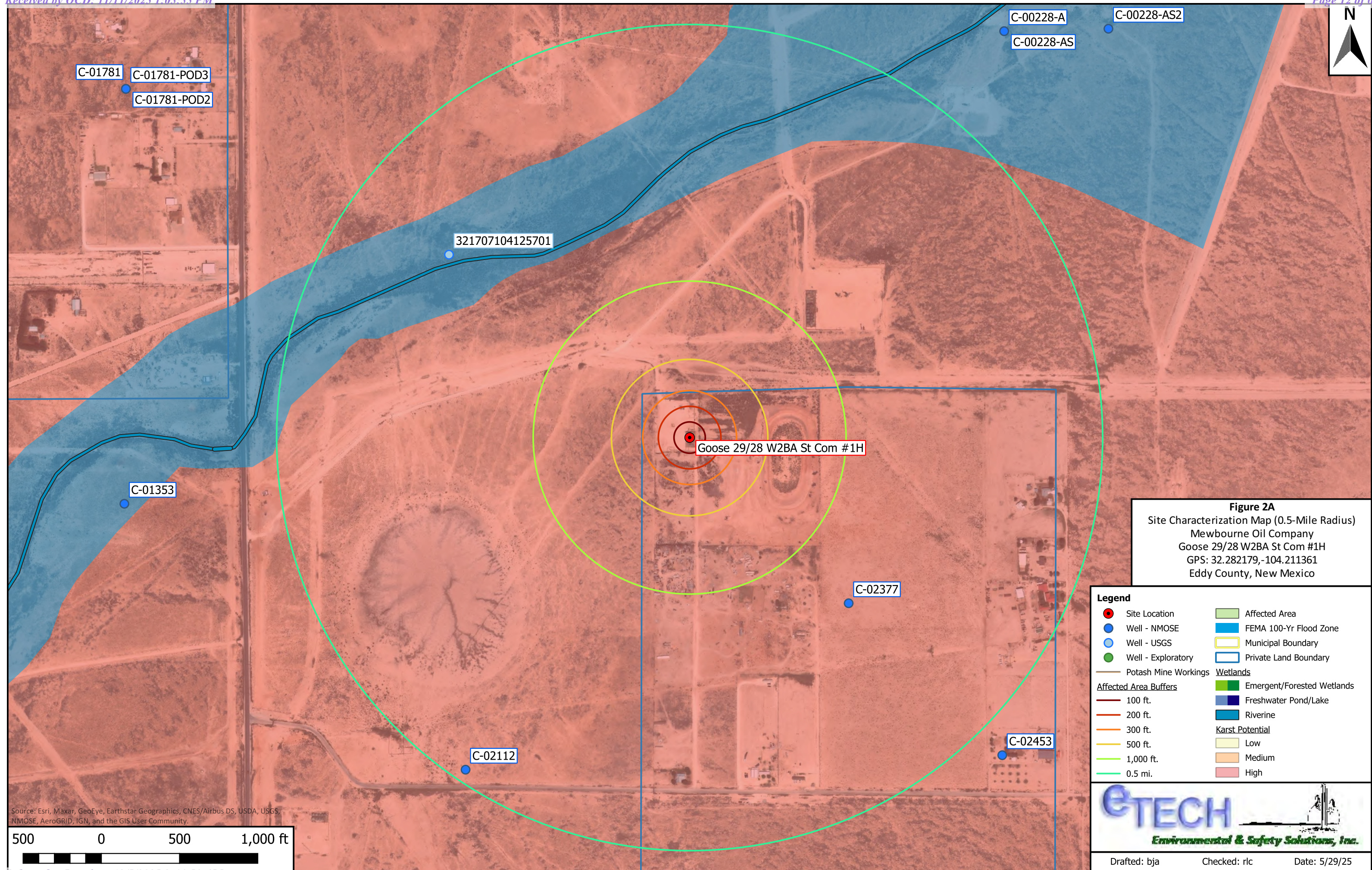
Drafted: bja

Checked: rlc

Date: 5/29/25

Figures 2A & 2B

Site Characterization Maps



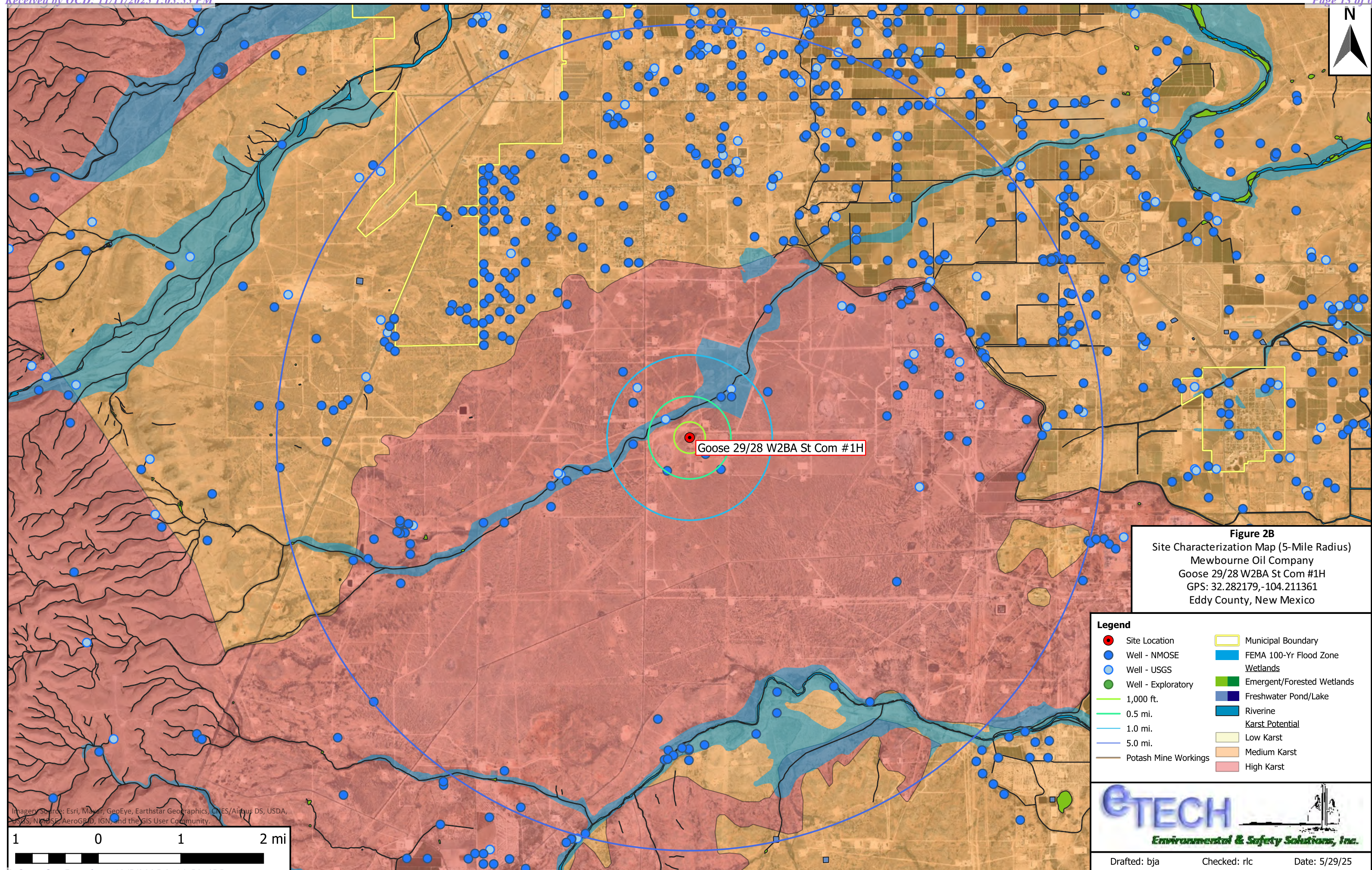
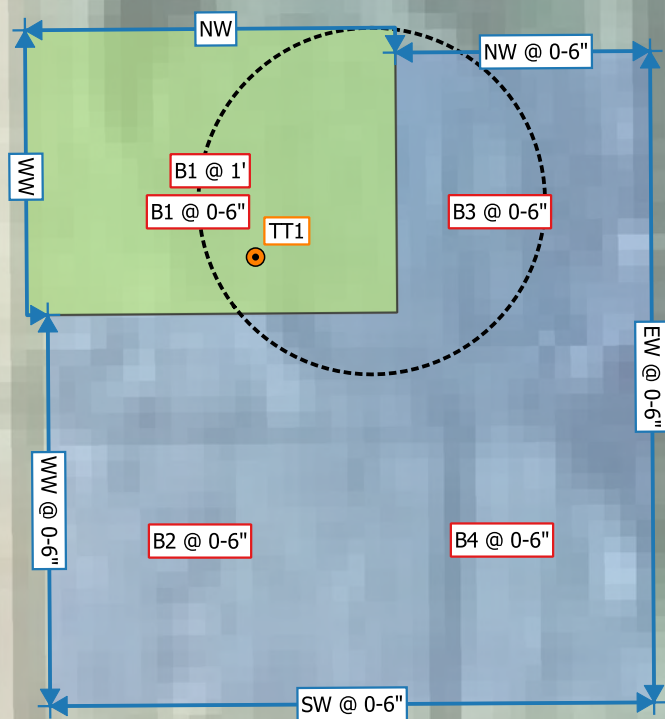
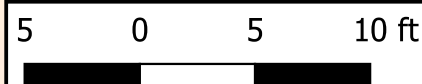


Figure 3

Sample Location Map



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.



Legend

- Composite Floor Sample
- ↔ Composite Wall Sample
- Excavation (1' bgs; ~200 ft²)
- Fire-Damaged Tank
- Surface Scrape (~570 ft²)
- Test Trench

Figure 3

Sample Location Map
Mewbourne Oil Company
Goose 29/28 W2BA St Com #1H
GPS: 32.282179,-104.211361
Eddy County, New Mexico



Created: bja

Checked: rlc

Date: 6/3/25

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

| Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Goose 29/28 W2BA St Com #1H NMOCD Ref. #: nAPP2432659450 | | | | | | | | | | | |
|--|------------|--------------|-------------|-----------------|--------------|---|--|---|--|---|------------------|
| NMOCD Closure Criteria | | | | 10 | 50 | N/A | N/A | N/A | N/A | 100 | 600 |
| NMOCD Reclamation Standard | | | | 10 | 50 | N/A | N/A | N/A | N/A | 100 | 600 |
| Sample ID | Date | Depth (Feet) | Soil Status | SW 846 8021B | | SW 846 8015M Ext. | | | | | 4500 Cl |
| | | | | Benzene (mg/kg) | BTEX (mg/kg) | GRO C ₆ -C ₁₀ (mg/kg) | DRO C ₁₀ -C ₂₈ (mg/kg) | GRO + DRO C ₆ -C ₂₈ (mg/kg) | ORO C ₂₈ -C ₃₆ (mg/kg) | TPH C ₆ -C ₃₆ (mg/kg) | Chloride (mg/kg) |
| TT1 @ 0-6" | 11/22/2024 | 0-0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 128 |
| B1 @ 0-6" | 11/27/2024 | 0.5 | Excavated | <0.050 | <0.300 | <10.0 | 225 | 225 | 27.8 | 253 | 240 |
| B1 @ 1' | 1/7/2025 | 1 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 112 |
| B2 @ 0-6" | 11/27/2024 | 0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 144 |
| B3 @ 0-6" | 11/27/2024 | 0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 288 |
| B4 @ 0-6" | 11/27/2024 | 0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 160 |
| NW @ 0-6" | 11/27/2024 | 0-0.5 | Excavated | <0.050 | <0.300 | <10.0 | 237 | 237 | 28.3 | 265 | 240 |
| NW | 12/13/2024 | 0-1 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 320 |
| EW @ 0-6" | 11/27/2024 | 0-0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 112 |
| SW @ 0-6" | 11/27/2024 | 0-0.5 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 160 |
| WW @ 0-6" | 11/27/2024 | 0-0.5 | Excavated | <0.050 | <0.300 | <10.0 | 201 | 201 | <10.0 | 201 | 464 |
| WW | 12/13/2024 | 0-1 | In-Situ | <0.050 | <0.300 | <10.0 | <10.0 | <20.0 | <10.0 | <30.0 | 96.0 |

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

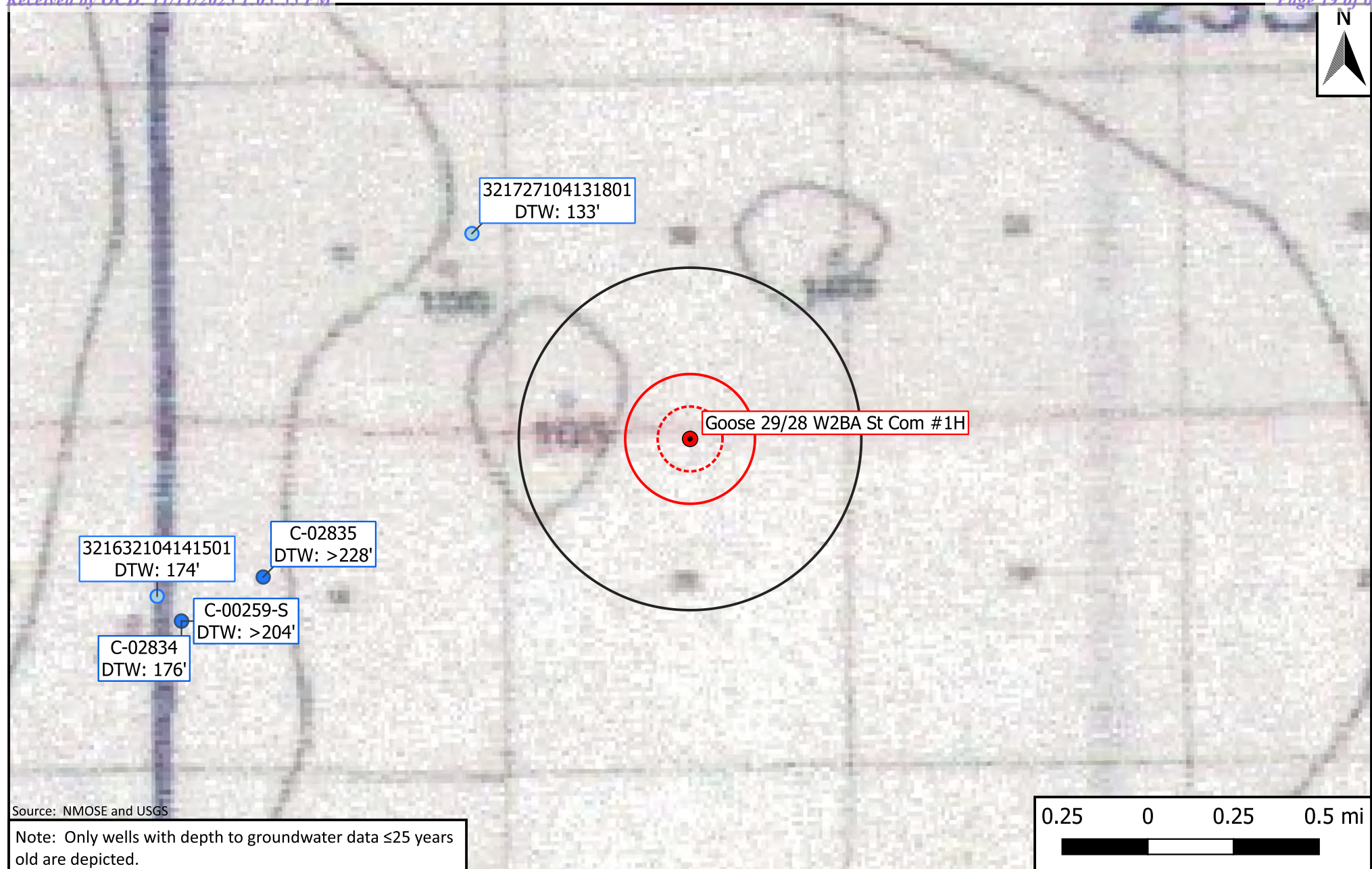
Bold: NMOCD Closure Criteria exceedance.

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
- 500-Ft Radius
- 1,000-Ft Radius
- 0.5-Mi Radius

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Goose 29/28 W2BA St Com #1H
 GPS: 32.282179, -104.211361
 Eddy County, New Mexico



Drafted: bja


Checked: rlc

Date: 5/29/25

Appendix B

Photographic Log

Photographic Log

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

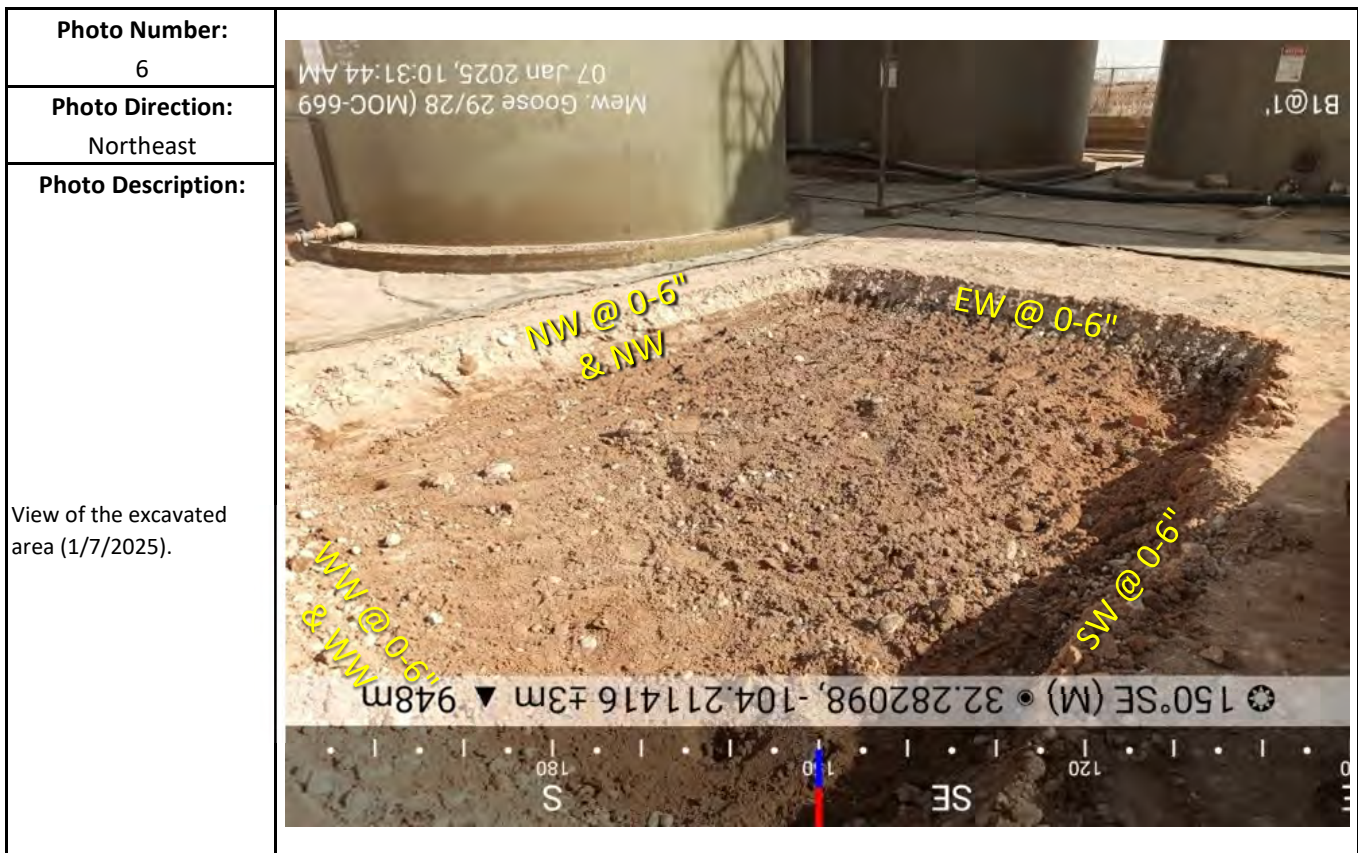
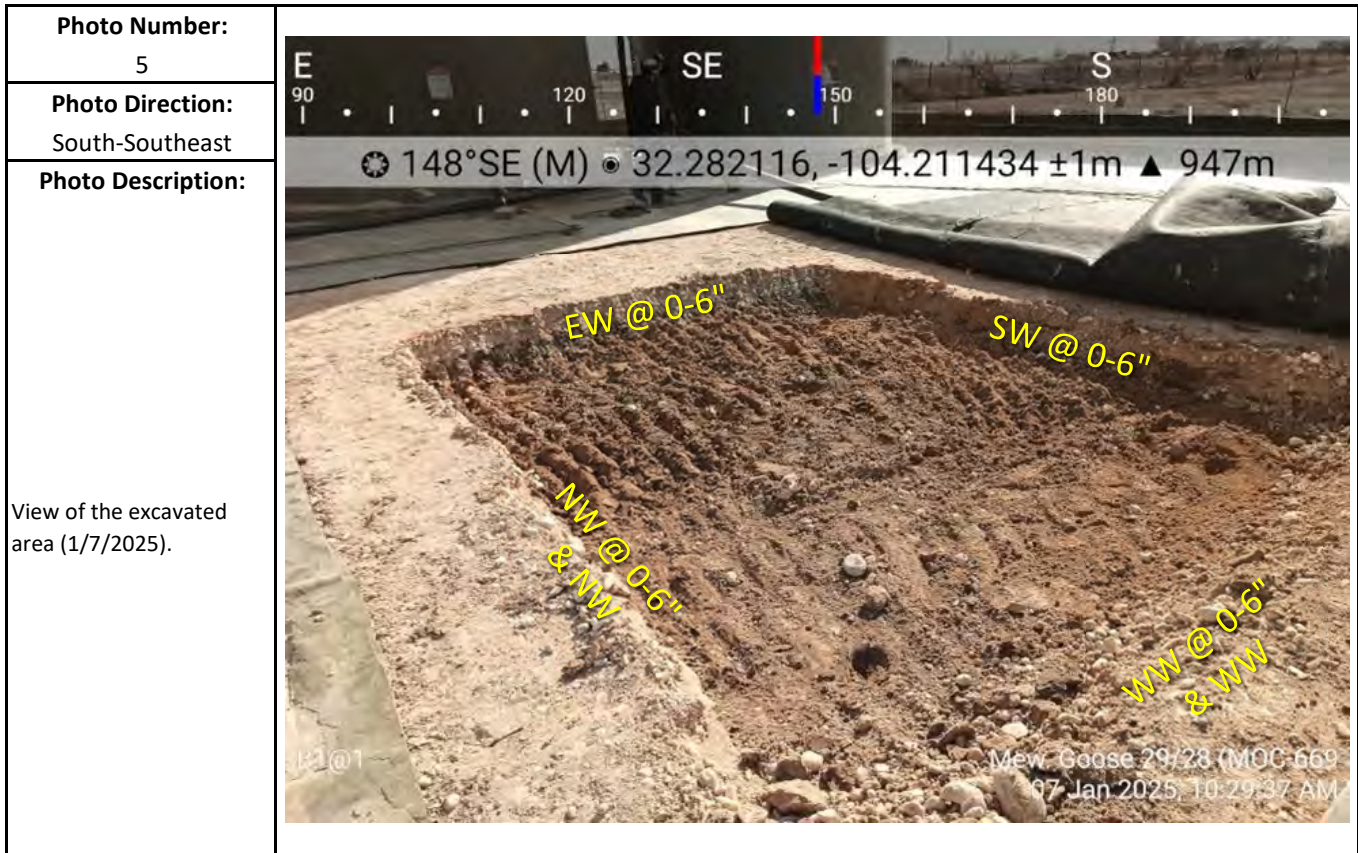
| | |
|---|--|
| Photo Number: 2 |  |
| Photo Direction: North | |
| Photo Description: View of the affected area. | |

Photographic Log

| | |
|---|--|
| Photo Number: 3 |  |
| Photo Direction: Southeast | |
| Photo Description: View of the excavated area (11/22/2024). | |

| | |
|---|--|
| Photo Number: 4 |  |
| Photo Direction: North-Northwest | |
| Photo Description: View of the excavated area (11/22/2024). | |

Photographic Log



Photographic Log

| | |
|--|--|
| Photo Number: 7 |  |
| Photo Direction: South-Southeast | |
| Photo Description: View of the remediated area and repaired liner. | |

| | |
|--|--|
| Photo Number: 8 |  |
| Photo Direction: Southeast | |
| Photo Description: EW @ 0-6" | |

View of the remediated area and repaired liner.

Appendix C

Laboratory Analytical Reports



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

December 04, 2024

JEFF BROOM

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: GOOSE 29/28 W2BA STATE COM 1H EVENT

Enclosed are the results of analyses for samples received by the laboratory on 11/26/24 9:27.

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
JEFF BROOM
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

| | | | |
|-------------------|-----------------------------------|---------------------|----------------|
| Received: | 11/26/2024 | Sampling Date: | 11/22/2024 |
| Reported: | 12/04/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 W2BA STATE COM 1H EVE | Sampling Condition: | Cool & Intact |
| Project Number: | 92662000 | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN | | |

Sample ID: TT 1 @ 0-6" (H247237-01)

| 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 | 11/29/2024 | ND | 2.20 | 110 | 2.00 | 2.48 | |
| Toluene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.29 | 114 | 2.00 | 5.19 | |
| Ethylbenzene* | <0.050 | 0.050 | 11/29/2024 | ND | 2.46 | 123 | 2.00 | 6.12 | |
| Total Xylenes* | <0.150 | 0.150 | 11/29/2024 | ND | 7.44 | 124 | 6.00 | 7.48 | |
| Total BTX | <0.300 | 0.300 | 11/29/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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 | 128 | 16.0 | 12/03/2024 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 11/28/2024 | ND | 204 | 102 | 200 | 3.74 | |
| DRO >C10-C28* | <10.0 | 10.0 | 11/28/2024 | ND | 185 | 92.4 | 200 | 5.78 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 11/28/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 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

Notes and Definitions

| | |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| 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 "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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------|--|-------------------|--|--------------|--|-------------------------|--|----------|--|-----------------|--|--------------|--|------------|--|------------|--|----------|--|------|--|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <i>Mewbourne Oil Company</i> | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <i>JEFF Broom / Connor Walker</i> | | | | P.O. #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | | | Company: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | | State: | | Zip: | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | | Fax #: | | Address: | | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | State: | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <i>Goose 29/28 WZBA STATE Com 1H Envnt</i> | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: <i>Goose 29/28 WZBA STATE Com 1H Envnt</i> | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <i>JEFF Broom</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | (G)RAB OR (C)OMP. | | # CONTAINERS | | MATRIX | | PRESERV. | | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | GROUNDWATER | | WASTEWATER | | SOIL | | OIL | | SLUDGE | | OTHER: | | ACID/BASE: | | ICE / COOL | | OTHER: | | DATE | | TIME | | | | | | | | | | | | | |
| <i>H247238</i> | | <i>TT1 @ 0-6"</i> | | <i>G</i> | | <i>1</i> | | <i>✓</i> | | <i>✓</i> | | <i>11-22-24</i> | | <i>10:00</i> | | <i>✓</i> | | <i>✓</i> | | <i>✓</i> | | | | | | | | | | | | | | | | | |

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| | | | | | |
|------------------------------|--------------------|---|-------------------------|--|--|
| Relinquished By: | | Date: | Received By: | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: | |
| <i>JEFF BROWN</i> | | Time: | <i>Theresa Aldridge</i> | All Results are emailed. Please provide Email address: | |
| Relinquished By: | | Date: | | REMARKS: | |
| | | Time: | | <i>Property Code is (92662000)</i> | |
| Delivered By: (Circle One) | Observed Temp. °C | Sample Condition | CHECKED BY: | Turnaround Time: | Standard |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C | Cool Intact | (Initials) | | <input checked="" type="checkbox"/> |
| | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <i>JD</i> | Thermometer ID #140 | Bacteria (only) Sample Condition |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | Correction Factor -0.6°C | Cool Intact Observed Temp. °C |
| | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | | <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |

~~FORM-000 R 3.3 08/03/24~~

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



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

December 05, 2024

JEFF BROOM

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: GOOSE 29/28 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/27/24 11:10.

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:

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

| | | | |
|-------------------|---------------------|---------------------|------------------|
| Received: | 11/27/2024 | Sampling Date: | 11/27/2024 |
| Reported: | 12/05/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN | | |

Sample ID: B 1 @ 0-6" (H247284-01)

| 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 | 12/02/2024 | ND | 2.16 | 108 | 2.00 | 9.06 | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.22 | 111 | 2.00 | 7.53 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.24 | 112 | 2.00 | 8.02 | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.64 | 111 | 6.00 | 7.72 | |
| Total BTX | <0.300 | 0.300 | 12/02/2024 | 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 | 240 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | 225 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | 27.8 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/27/2024
Reported: 12/05/2024
Project Name: GOOSE 29/28 BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 11/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: B 2 @ 0-6" (H247284-02)

| BTX 8021B | | mg/kg | | Analyzed By: JH | | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 12/03/2024 | ND | 2.16 | 108 | 2.00 | 9.06 | | |
| Toluene* | <0.050 | 0.050 | 12/03/2024 | ND | 2.22 | 111 | 2.00 | 7.53 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2024 | ND | 2.24 | 112 | 2.00 | 8.02 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2024 | ND | 6.64 | 111 | 6.00 | 7.72 | | |
| Total BTX | <0.300 | 0.300 | 12/03/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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 | 144 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|------------------|
| Received: | 11/27/2024 | Sampling Date: | 11/27/2024 |
| Reported: | 12/05/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN | | |

Sample ID: B 3 @ 0-6" (H247284-03)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | | |
| Total BTEX | <0.300 | 0.300 | 12/02/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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 | 288 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/27/2024
Reported: 12/05/2024
Project Name: GOOSE 29/28 BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 11/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: B 4 @ 0-6" (H247284-04)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | |
| Total BTEX | <0.300 | 0.300 | 12/02/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | 160 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 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:

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

| | | | |
|-------------------|---------------------|---------------------|------------------|
| Received: | 11/27/2024 | Sampling Date: | 11/27/2024 |
| Reported: | 12/05/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN | | |

Sample ID: NW @ 0-6" (H247284-05)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | | |
| Total BTEX | <0.300 | 0.300 | 12/02/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | 240 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | 237 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | 28.3 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|------------------|
| Received: | 11/27/2024 | Sampling Date: | 11/27/2024 |
| Reported: | 12/05/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN | | |

Sample ID: EW @ 0-6" (H247284-06)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | | |
| Total BTEX | <0.300 | 0.300 | 12/02/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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 | 112 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|------------------|
| Received: | 11/27/2024 | Sampling Date: | 11/27/2024 |
| Reported: | 12/05/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 BATTERY | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Shalyn Rodriguez |
| Project Location: | NONE GIVEN | | |

Sample ID: SW @ 0-6" (H247284-07)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | | |
| Total BTEx | <0.300 | 0.300 | 12/02/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | 160 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/27/2024
Reported: 12/05/2024
Project Name: GOOSE 29/28 BATTERY
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 11/27/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: WW @ 0-6" (H247284-08)

| 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 | 12/02/2024 | ND | 2.12 | 106 | 2.00 | 2.49 | | |
| Toluene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.08 | 104 | 2.00 | 3.67 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/02/2024 | ND | 2.14 | 107 | 2.00 | 5.98 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/02/2024 | ND | 6.27 | 105 | 6.00 | 7.29 | | |
| Total BTEX | <0.300 | 0.300 | 12/02/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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 | 464 | 16.0 | 12/03/2024 | ND | 480 | 120 | 400 | 6.90 | | |

| 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 | 12/02/2024 | ND | 205 | 102 | 200 | 2.54 | |
| DRO >C10-C28* | 201 | 10.0 | 12/02/2024 | ND | 200 | 99.8 | 200 | 1.24 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/02/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name: | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | |
|-------------------|-------------|-----------------|--------------|----------------|------------|----------|----------|-------------------------|-----|-----|----------|---|----------|------|--|--|--|
| Project Manager: | | | | P.O. #: | | | | | | | | | | | | | |
| Address: | | | | Company: | | | | | | | | | | | | | |
| City: | | State: | | Zip: | | Attn: | | | | | | | | | | | |
| Phone #: | | Fax #: | | Address: | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | City: | | | | | | | | | | | | | |
| Project Name: | | State: | | Zip: | | | | | | | | | | | | | |
| Project Location: | | | | Phone #: | | | | | | | | | | | | | |
| Sampler Name: | | | | Fax #: | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | MATRIX | | PRESERV. | SAMPLING | | CL- | BTX | EXT. TPH | | | | | | |
| Lab I.D. | Sample I.D. | (GRAB OR C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | | | | | | | | | |
| H347284 | | | | | | | | | | | | | | | | | |
| 1 | B2 @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0800 | | | |
| 2 | B2 @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0807 | | | |
| 3 | B3 @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0810 | | | |
| 4 | B4 @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0812 | | | |
| 5 | NW @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0815 | | | |
| 6 | EW @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0820 | | | |
| 7 | SW @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0818 | | | |
| 8 | WW @ 0-6" | C | | | | ✓ | | | | ✓ | ✓ | ✓ | 11/27/24 | 0816 | | | |

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| | | | | | | | |
|---|--|-------------------------|--|---|--|---|--|
| Relinquished By:  | | Date: 11/27/24 | | Received By:  | | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ | |
| Time: 11:10 | | Time: _____ | | All Results are emailed. Please provide Email address: _____ | | REMARKS: Property Code is Under Gorse 29/28 Event | |
| Relinquished By: _____ | | Date: _____ | | Received By: _____ | | Time: _____ | |
| Delivered By: (Circle One) | | Observed Temp. °C: -0.9 | | Sample Condition | | CHECKED BY: (Initials)  | |
| Sampler - UPS - Bus - Other: _____ | | Corrected Temp. °C: 1.5 | | Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No | | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> | |
| | | | | Cool Intact <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 | |
| | | | | | | Thermometer ID #140 | |
| | | | | | | Correction Factor -0.6°C | |
| | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| | | | | | | Corrected Temp. °C | |

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



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

December 20, 2024

JEFF BROOM

MEWBOURNE OIL COMPANY

P. O. BOX 5270

HOBBS, NM 88240

RE: GOOSE 29/28 W2BA STATE COM 1H EVENT

Enclosed are the results of analyses for samples received by the laboratory on 12/16/24 16:21.

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
JEFF BROOM
P. O. BOX 5270
HOBBS NM, 88240
Fax To: (575) 937-6252

| | | | |
|-------------------|-----------------------------------|---------------------|---------------|
| Received: | 12/16/2024 | Sampling Date: | 12/13/2024 |
| Reported: | 12/20/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 W2BA STATE COM 1H EVE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Alyssa Parras |
| Project Location: | NONE GIVEN | | |

Sample ID: NW (H247593-01)

| BTEx 8021B | | mg/kg | | Analyzed By: JH | | | | | |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/17/2024 | ND | 2.00 | 100 | 2.00 | 1.90 | |
| Toluene* | <0.050 | 0.050 | 12/17/2024 | ND | 2.00 | 100 | 2.00 | 1.91 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2024 | ND | 1.99 | 99.7 | 2.00 | 1.48 | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2024 | ND | 6.01 | 100 | 6.00 | 1.48 | |
| Total BTEX | <0.300 | 0.300 | 12/17/2024 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: KV | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 320 | 16.0 | 12/18/2024 | ND | 448 | 112 | 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 | 12/17/2024 | ND | 205 | 102 | 200 | 0.911 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/17/2024 | ND | 202 | 101 | 200 | 2.25 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/17/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

| | | | |
|-------------------|-----------------------------------|---------------------|---------------|
| Received: | 12/16/2024 | Sampling Date: | 12/13/2024 |
| Reported: | 12/20/2024 | Sampling Type: | Soil |
| Project Name: | GOOSE 29/28 W2BA STATE COM 1H EVE | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Alyssa Parras |
| Project Location: | NONE GIVEN | | |

Sample ID: WW (H247593-02)

| 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 | 12/17/2024 | ND | 2.00 | 100 | 2.00 | 1.90 | | |
| Toluene* | <0.050 | 0.050 | 12/17/2024 | ND | 2.00 | 100 | 2.00 | 1.91 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/17/2024 | ND | 1.99 | 99.7 | 2.00 | 1.48 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/17/2024 | ND | 6.01 | 100 | 6.00 | 1.48 | | |
| Total BTEX | <0.300 | 0.300 | 12/17/2024 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: KV | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 12/18/2024 | ND | 448 | 112 | 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 | 12/17/2024 | ND | 205 | 102 | 200 | 0.911 | |
| DRO >C10-C28* | <10.0 | 10.0 | 12/17/2024 | ND | 202 | 101 | 200 | 2.25 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 12/17/2024 | ND | | | | | |

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 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

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

| Company Name: <i>Newbourne Oil Company</i> | | | | P.O. #: | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----------------|--|-----------------|--|--------------|--|------------------|--|------------|--|----------|--|-----|--|--------|--|---------|--|------------|--|------------|--|-----------------|--|-------------|--|----------|--|----------|--|----------|--|----------|--|--|--|--|--|--|--|--|--|
| Project Manager: <i>JEFF Brown</i> | | | | Company: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | | | Attn: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City: | | State: | | Zip: | | Address: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone #: | | Fax #: | | City: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project #: | | Project Owner: | | State: | | | | Zip: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <i>Goose 29/28 W2BA STATE Cmn #1H</i> | | | | Phone #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: <i>Goose 29/28 W2BA STATE Cmn #1H</i> | | | | Fax #: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <i>JEFF Brown</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | MATRIX | | | | PRESERV. | | | | SAMPLING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | | Sample I.D. | | GRAB OR (C)OMP. | | # CONTAINERS | | GROUNDWATER | | WASTEWATER | | SOIL | | OIL | | SLUDGE | | OTHER : | | ACID/BASE: | | ICE / COOL | | OTHER : | | DATE | | TIME | | CL | | BTX | | EXT. TPH | | | | | | | | | |
| <i>HB47593</i> | | <i>NW</i> | | <i>C</i> | | | | | | | | <i>✓</i> | | | | | | | | <i>✓</i> | | <i>✓</i> | | <i>12/10/24</i> | | <i>2:35</i> | | <i>✓</i> | | <i>✓</i> | | <i>✓</i> | | | | | | | | | | | |
| <i>2</i> | | <i>NW</i> | | <i>C</i> | | | | | | | | <i>✓</i> | | | | | | | | <i>✓</i> | | <i>✓</i> | | <i>12/10/24</i> | | <i>2:45</i> | | <i>✓</i> | | <i>✓</i> | | <i>✓</i> | | | | | | | | | | | |

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| | | | | | |
|------------------------------|--------------------|--|-------------------------|---|---|
| Relinquished By: | | Date: | Received By: | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: | |
| <i>Jeff Brown</i> | | <i>12/16/24</i> | <i>ADamus</i> | All Results are emailed. Please provide Email address: | |
| Relinquished By: | | Time: | Received By: | REMARKS: | |
| | | <i>4:21</i> | | <i>* sample date correction per customer; S. Rodriguez</i> | |
| | | Date: | | | |
| | | Time: | | | |
| Delivered By: (Circle One) | Observed Temp. °C | Sample Condition | CHECKED BY: | Turnaround Time: | Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C | Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No | (Initials) <i>AD</i> | 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 <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |
| | <i>39.2</i> | | | | |
| | <i>33.2</i> | | | | |

FORM-006 R 3.3 08/05/24

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



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

January 13, 2025

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: GOOSE 27/28 W2BA ST. COM #1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/07/25 16:17.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
 JUSTIN ROBERTS
 P. O. BOX 2491
 HOBBS NM, 88241
 Fax To: (575) 392-9376

| | | | |
|-------------------|-----------------------------------|---------------------|---------------|
| Received: | 01/07/2025 | Sampling Date: | 01/07/2025 |
| Reported: | 01/13/2025 | Sampling Type: | Soil |
| Project Name: | GOOSE 27/28 W2BA ST. COM #1H BATT | Sampling Condition: | Cool & Intact |
| Project Number: | MOC -669 | Sample Received By: | Alyssa Parras |
| Project Location: | MEWBOURNE 32.282362-104.211548 | | |

Sample ID: B1 @ 1' (H250068-01)

| 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 | 01/08/2025 | ND | 1.66 | 83.2 | 2.00 | 3.27 | |
| Toluene* | <0.050 | 0.050 | 01/08/2025 | ND | 1.78 | 88.9 | 2.00 | 2.42 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/08/2025 | ND | 1.71 | 85.3 | 2.00 | 2.07 | |
| Total Xylenes* | <0.150 | 0.150 | 01/08/2025 | ND | 4.98 | 83.0 | 6.00 | 1.93 | |
| Total BTX | <0.300 | 0.300 | 01/08/2025 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 71.5-134

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: KV | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 01/08/2025 | ND | 416 | 104 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 01/09/2025 | ND | 171 | 85.7 | 200 | 7.39 | |
| DRO >C10-C28* | <10.0 | 10.0 | 01/09/2025 | ND | 165 | 82.3 | 200 | 10.5 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 01/09/2025 | ND | | | | | |

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.3 % 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

| | |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. |
| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report |

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

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|---------------------------------|-------------|---------------------------|------|-----|--------|-------------------------|------------|------------|-----|-------|--------|---|---|--|--|--|--|--|--|--|---------|------|
| Company Name: <u>Diamondback Disp</u> | | | | BILL TO | | | | ANALYSIS REQUEST | | | | | | | | | | | | | | | | |
| Project Manager: <u>Tyler Roberts</u> | | | | P.O. #: | | | | | | | | | | | | | | | | | | | | |
| Address: <u>2525 NW County Rd</u> | | | | Company: <u>Hewbourne</u> | | | | | | | | | | | | | | | | | | | | |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> | | | | Attn: <u>Self Broom</u> | | | | | | | | | | | | | | | | | | | | |
| Phone #: <u>(575) 392-8994</u> Fax #: | | | | Address: | | | | | | | | | | | | | | | | | | | | |
| Project #: <u>MOL-669</u> Project Owner: | | | | City: | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Goose 28 W2BA St. Com #1H Battery</u> | | | | State: Zip: | | | | | | | | | | | | | | | | | | | | |
| Project Location: <u>32.282362 - 104.211548</u> | | | | Phone #: | | | | | | | | | | | | | | | | | | | | |
| Sampler Name: <u>Sose Chuback</u> | | | | Fax #: | | | | | | | | | | | | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | (GIRAB OR COMP) # CONTAINERS | MATRIX | | | | | PRESERV. | SAMPLING | | cl | BTEY | EXT PH | | | | | | | | | | | |
| | | | GROUNDWATER | WASTEWATER | SOIL | OIL | SLUDGE | OTHER : | ACID/BASE: | ICE / COOL | | | | | | | | | | | | | OTHER : | DATE |
| H250028 1 | B10 1' | C 1 | | | 1 | | | | 1 | | 4/7 | 10:40 | 1 | 1 | 1 | | | | | | | | | |

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| | | | | |
|-----------------------------------|--------------------------------|---|---|--|
| Relinquished By: <i>Jsc Quera</i> | | Date: <i>1/7/25</i> | Received By: <i>ap@diamondbacknm.com</i> | Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: |
| Time: <i>4:17</i> | | | | All Results are emailed. Please provide Email address: <i>598210520@gmail.com</i> |
| Relinquished By: | | Date: | Received By: | REMARKS: <i>E-mail Results</i> |
| Time: | | | | |
| Delivered By: (Circle One) | Observed Temp. °C <i>29.2</i> | Sample Condition | CHECKED BY: (Initials) <i>AB</i> | Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> |
| Sampler - UPS - Bus - Other: | Corrected Temp. °C <i>28.2</i> | <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No | | Bacteria (only) Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C |
| | | | Thermometer ID #140 Correction Factor -0.8°C | |

Appendix D

Regulatory Correspondence

From: OCDOnline@state.nm.us
Sent: Friday, November 22, 2024 8:06 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 406040

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#) nAPP2432659450.

The sampling event is expected to take place:

When: 11/27/2024 @ 08:00

Where: B-29-23S-27E 0 FNL 0 FEL (32.282179,-104.211361)

Additional Information: Jeff Broom, 575.605.6908

Additional Instructions: FROM 748//OLD CAVERN RD AND 759 GO E .7MI TO LOCATION

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
Sent: Wednesday, December 11, 2024 3:07 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 410810

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#) nAPP2432659450.

The sampling event is expected to take place:

When: 12/13/2024 @ 14:30

Where: B-29-23S-27E 0 FNL 0 FEL (32.282179,-104.211361)

Additional Information: Jeff Broom, (575) 605-6908

Additional Instructions: FROM 748//OLD CAVERN RD AND 759 GO E .7MI TO LOCATION

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
Sent: Friday, January 3, 2025 3:33 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 416937

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#) nAPP2432659450.

The sampling event is expected to take place:

When: 01/07/2025 @ 14:30

Where: B-29-23S-27E 0 FNL 0 FEL (32.282179,-104.211361)

Additional Information: Jeff Broom, 575-605-6908

Additional Instructions: FROM 748//OLD CAVERN RD AND 759 GO E .7MI TO LOCATION

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
Sent: Friday, January 31, 2025 7:34 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 427294

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

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2432659450.

The liner inspection is expected to take place:

When: 02/05/2025 @ 09:00

Where: B-29-23S-27E 0 FNL 0 FEL (32.282179,-104.211361)

Additional Information: Jeff Broom, 806-202-8358

Additional Instructions: FROM 748//OLD CAVERN RD AND 759 GO E .7MI TO LOCATION

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. 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 liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection 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: Connor Walker <cwalker@mewbourne.com>
Sent: Wednesday, February 12, 2025 8:14 AM
To: Jeff Broom
Subject: FW: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 429512

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, February 11, 2025 4:53 PM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 429512

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2432659450, for the following reasons:

- **Remediation closure denied for the following:** In the C-141 application, to the following question: “Was this release entirely contained within a lined containment” you answered “Yes.” Because the liner did not have integrity this will need to be updated to “No,” upon report resubmittal.
- On pg. 5 of report it says: “During the initial site assessment we did find that this release occurred after a small tank battery resulting minimal fluid loss and damage to the liner in the facility due to direct and indirect heat.” This sentence does not make sense. Rewrite, so its meaning is clear.
- In the Site Characterization portion of the C-141 application, the minimum distances to the following need updated as they are incorrect: significant watercourse, playa lake, an occupied permanent residence, a private domestic fresh water well used by less than five households, a wetland, and a 100-year floodplain.
- Also on pg. 5: “Based on field observations we determined that initial testing would be completed with four (4) floor samples and four (4) horizontal samples to determine if the area under the liner would need to be remediated.” Explain what the field observations were. Is this after the liner was removed? Was the entire liner removed? How many tanks were removed? Was a surface scrape performed? Per 19.15.29.12(E)1(d) NMAC, a “description of all remedial activities should be included” in the final report so it is easily understood what remediation occurred.
- On pg. 6 of report: “Mewbourne commenced collected 8 confirmation samples (B1 through B4 at 0-6” and NW, SW, WW, and EW) remediation activities at the Site.” This sentence is unintelligible. Rewrite.

- On pg. 6 of the report: “On December 16, 2025, Mewbourne collected 2 confirmation soil samples (NW and WW) from the sidewalls of the lined facility.” According to Sample Log and Labs table, no samples were collected on 12/16/24. And NW did exceed Closure Criteria. Explain.
- Explain what was done when “Lab results indicated we did have two walls’ samples and one floor sample indicating higher levels of TPH outside of closure criteria for releases involving groundwater less than 50’.” Did you extend the excavation?
- OCD needs to see where exactly in the tank battery NW was collected. Show on photos. Where were WW, EW and SW collected? Were they collected within or outside the tank battery? The way this report is written, it is unclear.
- On the Figure provided, you list WW1 but on lab data there is no WW1, only WW. Sampling nomenclature must match.
- Per 19.15.29.12(E)1(a)NMAC, a final report must include a scaled site and sampling diagram—Appendix C does not suffice. There is no scale. Show the location of delineation sample TT1.
- Resubmit updated report by 5/12/25.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 429512.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov

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

Appendix E Addendum

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, February 11, 2025 4:53 PM

To: Connor Walker <cwalker@mewbourne.com>

Subject: [EXT] The Oil Conservation Division (OCD) has rejected the application, Application ID: 429512

To whom it may concern (c/o Connor Walker for MEWBOURNE OIL CO),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2432659450, for the following reasons:

- **Remediation closure denied for the following:** In the C-141 application, to the following question: "Was this release entirely contained within a lined containment" you answered "Yes." Because the liner did not have integrity this will need to be updated to "No," upon report resubmittal.

This information has been updated in the *Amended Remediation Summary & Soil Closure Request (Amended Closure Report)* and will be updated in the NMOCD's C-141 portal upon submittal.

- On pg. 5 of report it says: "During the initial site assessment we did find that this release occurred after a small tank battery resulting minimal fluid loss and damage to the liner in the facility due to direct and indirect heat." This sentence does not make sense. Rewrite, so its meaning is clear.

This information has been clarified in Section 4.0 of the *Amended Closure Report*.

- In the Site Characterization portion of the C-141 application, the minimum distances to the following need updated as they are incorrect: significant watercourse, playa lake, an occupied permanent residence, a private domestic fresh water well used by less than five households, a wetland, and a 100-year floodplain.

These distances have been updated in the *Amended Closure Report* and will be updated in the C-141 portal upon submittal.

- Also on pg. 5: "Based on field observations we determined that initial testing would be completed with four (4) floor samples and four (4) horizontal samples to determine if the area under the liner would need to be remediated." Explain what the field observations were. Is this after the liner was removed? Was the entire liner removed? How many tanks were removed? Was a surface scrape performed? Per 19.15.29.12(E)1(d) NMAC, a "description of all remedial activities should be included" in the final report so it is easily understood what remediation occurred.

This information has been clarified in Sections 4.0 and 5.0 of the Amended Closure Report.

A single fire-damaged storage tank and a section of the containment area liner were removed in mid-November 2024, following an initial site assessment. The footprint of the storage tank is depicted in the "Sample Location Map" provided as Figure 3 of the Amended Closure Report.

The removed section of liner was replaced in late November 2024, following delineation sampling and a surface scrape of the affected area. The storage tank was replaced at a later date, which was outside the time frame of the remediation activities summarized in the original and amended closure reports.

That section of liner was later cut and temporarily rolled back to facilitate excavation and confirmation sampling activities in both December 2024 and January 2025. The liner was repaired to restore impermeability following each sampling event.

- On pg. 6 of report: "Mewbourne commenced collected 8 confirmation samples (B1 through B4 at 0-6" and NW, SW, WW, and EW) remediation activities at the Site." This sentence is unintelligible. Rewrite.
- On pg. 6 of the report: "On December 16, 2025, Mewbourne collected 2 confirmation soil samples (NW and WW) from the sidewalls of the lined facility." According to Sample Log and Labs table, no samples were collected on 12/16/24. And NW did exceed Closure Criteria. Explain.
- Explain what was done when "Lab results indicated we did have two walls' samples and one floor sample indicating higher levels of TPH outside of closure criteria for releases involving groundwater less than 50'." Did you extend the excavation?

The issues cited in the preceding three (3) bullets have been clarified in Section 5.0 of the Amended Closure Report.

"December 16, 2025" was a typographical error. The collection date for confirmation samples NW and WW was December 13, 2024. The correct date is reflected in the text of the Amended Closure Report, as well as the soil chemistry data table provided as Table 1.

- OCD needs to see where exactly in the tank battery NW was collected. Show on photos. Where were WW, EW and SW collected? Were they collected within or outside the tank battery? The way this report is written, it is unclear.

The locations of composite sidewall samples WW, EW, and SW @ 0-6" (among others) are depicted in the "Sample Location Map" (Figure 3) and labeled in photographs #5 and #6 of the Photographic Log (Appendix B) in the Amended Closure Report.

The release and subsequent excavation were limited to the containment area of the tank battery and did not affect the adjacent production pad or pasture. Composite sidewall samples EW and SW were collected entirely within the containment area. The west sidewall of the excavation abutted the western wall of the containment area and was consequently quite small and narrow (<2-3 feet wide). Therefore, subsamples for composite sample WW were collected from both inside and outside the containment area wall to ensure that the area was adequately delineated.

Unfortunately, photographs #5 and #6 were the only ones of the excavated area taken prior to backfilling and do not show the western containment wall, nor the full extent of the area characterized by composite sample WW.

- On the Figure provided, you list WW1 but on lab data there is no WW1, only WW. Sampling nomenclature must match.

"WW 1" was a typographical error. The correct sample name, "WW", is reflected in the body of the Amended Closure Report, as well as the "Sample Location Map" (Figure 3) and the soil chemistry data table (Table 1).

- Per 19.15.29.12(E)1(a)NMAC, a final report must include a scaled site and sampling diagram—Appendix C does not suffice. There is no scale. Show the location of delineation sample TT1.

The location of test Trench TT 1 is depicted in the scaled "Sample Location Map" provided as Figure 3 of the Amended Closure Report.

- Resubmit updated report by 5/12/25.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 429512.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520

Shelly.Wells@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
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Sante Fe Main Office
Phone: (505) 476-3441

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

QUESTIONS

Action 525448

QUESTIONS

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|------------------|---|
| Prerequisites | |
| Incident ID (n#) | nAPP2432659450 |
| Incident Name | NAPP2432659450 GOOSE 29/28 W2BA ST COM #1H @ 30-015-43452 |
| Incident Type | Fire |
| Incident Status | Remediation Closure Report Received |
| Incident Well | [30-015-43452] GOOSE 29 28 W2BA STATE COM #001H |

| | |
|--|-----------------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | GOOSE 29/28 W2BA ST COM #1H |
| Date Release Discovered | 11/11/2024 |
| Surface Owner | Private |

| | |
|--|------|
| Incident Details | |
| Please answer all the questions in this group. | |
| Incident Type | Fire |
| Did this release result in a fire or is the result of a fire | Yes |
| 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: Fire Production Tank Produced Water Released: 11 BBL Recovered: 0 BBL Lost: 11 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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 2

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

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: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire. |
| 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 | n/a |

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: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 11/11/2025 |
|--|---|

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

QUESTIONS, Page 3

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|--------------------------------|
| Site Characterization | |
| <i>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.</i> | |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 100 and 500 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| 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 1000 (ft.) and ½ (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Between 1 and 5 (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 1 and 5 (mi.) |
| A wetland | Between 1000 (ft.) and ½ (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between 1000 (ft.) and ½ (mi.) |
| Categorize the risk of this well / site being in a karst geology | High |
| A 100-year floodplain | Between 1000 (ft.) and ½ (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| | |
|---|------------|
| Remediation Plan | |
| <i>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.</i> | |
| Requesting a remediation plan approval with this submission | Yes |
| <i>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.</i> | |
| 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) | 464 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 265 |
| GRO+DRO (EPA SW-846 Method 8015M) | 237 |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 |
| Benzene (EPA SW-846 Method 8021B or 8260B) | 0 |
| <i>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> | |
| On what estimated date will the remediation commence | 11/27/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 02/05/2025 |
| On what date will (or was) the remediation complete(d) | 01/07/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed | 800 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 15 |
| What is the estimated surface area (in square feet) that will be remediated | 800 |
| What is the estimated volume (in cubic yards) that will be remediated | 8 |
| <i>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.</i> | |
| <i>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.</i> | |

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

QUESTIONS, Page 4

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|--|--|
| Remediation Plan (continued) | |
| <i>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.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| (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 | TX |
| 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) | No |
| (In Situ) Soil Vapor Extraction | No |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | No |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | No |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | No |
| Ground Water Abatement pursuant to 19.15.30 NMAC | No |
| OTHER (Non-listed remedial process) | No |
| <i>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> | |
| 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: Jeff Broom Title: Environmental Rep Email: jlbroom@mewbourne.com Date: 11/11/2025 |
| <i>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.</i> | |

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

QUESTIONS, Page 5

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Deferral Requests Only | |
| <i>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.</i> | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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

QUESTIONS, Page 6

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 416937 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/07/2025 |
| What was the (estimated) number of samples that were to be gathered | 1 |
| What was the sampling surface area in square feet | 200 |

| Remediation Closure Request | |
|---|---|
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i> | |
| Requesting a remediation closure approval with this submission | Yes |
| Have the lateral and vertical extents of contamination been fully delineated | Yes |
| Was this release entirely contained within a lined containment area | No |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes |
| What was the total surface area (in square feet) remediated | 800 |
| What was the total volume (cubic yards) remediated | 8 |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes |
| What was the total surface area (in square feet) reclaimed | 800 |
| What was the total volume (in cubic yards) reclaimed | 8 |
| Summarize any additional remediation activities not included by answers (above) | n/a |
| <p><i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i></p> | |
| <p>I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.</p> | |
| I hereby agree and sign off to the above statement | Name: Jeff Broom Title: Environmental Rep Email: jbroom@mewbourne.com Date: 11/11/2025 |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 7

Action 525448

QUESTIONS (continued)

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|----|
| Reclamation Report | |
| Only answer the questions in this group if all reclamation steps have been completed. | |
| Requesting a reclamation approval with this submission | No |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 525448

CONDITIONS

| | |
|---|---|
| Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241 | OGRID: 14744 |
| | Action Number: 525448 |
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CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| scwells | None | 12/5/2025 |