

Amended Remediation Summary & Deferral Request

Mewbourne Oil Company Top Gun Federal SWD #001


Eddy County, New Mexico
Unit Letter "A", Section 18, Township 23 South, Range 27 East
Latitude 32.310500° North, Longitude 104.222970° West
NMOCD Reference No. nAPP2507060025

Prepared By:

Etech Environmental & Safety Solutions, Inc.
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February 11, 2026


Ben J. Arguijo


Lance Crenshaw



Carlsbad • Hobbs • Houston • Lafayette • Lubbock • Midland

TABLE OF CONTENTS

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

FIGURES

- Figure 1 – Site Location Map
- Figure 2A – Site Characterization Map (0.5-Mile Radius)
- Figure 2B – Site Characterization Map (5-Mile Radius)
- Figure 3 – Inferred Depth to Groundwater Map
- Figure 4 – Sample Location Map
- Figure 5 – Sample Location Map - Previous Incidents

TABLES

- Table 1 – Concentrations of BTEX, TPH & Chloride in Soil
- Table 2 – Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

- Appendix A – Depth to Groundwater Information
- Appendix B – Environmental Karst Study Report
- Appendix C – Soil Survey Information
- Appendix D – Protected Species & Habitats
- Appendix E – Photographic Log
- Appendix F – Field Data
- Appendix G – Laboratory Analytical Reports
- Appendix H – Regulatory Correspondence

1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Amended Remediation Summary & Deferral Request* for the release site known as the Top Gun Federal SWD #001 (henceforth, "Site"). The release was limited to the caliche production pad for the facility and did not impact the adjacent pasture. However, portions of the release impacted an area that had previously been affected by releases on July 8, 2021 (Incident #nAPP2120037259) and April 21, 2022 (Incident #nAPP2212348289), remediation of which had been deferred until the time of decommissioning and abandonment of the facility.

Details of the subject release are provided below. Details of the July 2021 and April 2022 releases are available in the New Mexico Oil Conservation Division (NMOCD) Permitting system.

Location of Release Source				
Latitude: _____		32.310500°		Longitude _____
				-104.222970°
Provided GPS are in WGS84 format.				
Site Name: _____		Top Gun Federal SWD #001		
Site Type: _____		Tank Battery		
Unit Letter	Section	Township	Range	County
"A"	18	23S	27E	Eddy
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 31		Volume Recovered (bbls) 15	
	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: Human Error				
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.				

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 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution or church?	Between 500 and 1,000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 500 and 1,000 (ft.)
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 ½ and 1 (mi.)
A subsurface mine?	Greater than 5 (mi.)
A (non-karst) unstable area?	Between 1 and 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	Low
A 100-year floodplain?	Between 1 and 5 (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 and NMOCD siting information is provided as 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; aerial imagery; and a karst survey conducted by a third-party environmental contractor. The results are depicted in Figures 1, 2A, 2B, and 3.

On May 12, 2025, in accordance with NMOCD requirements for consideration of remediation deferral, a geophysical survey of the Site was conducted by a third-party environmental contractor. According to the *Environmental Karst Study Report* dated June 20, 2025, "No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary. No anomalies consistent with subsurface air- or water-filled voids were found within the TGSR geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse. Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary." The karst study report is provided as Appendix B.

Remediation activities did "not involve new surface disturbing activity outside the authorized boundaries of any existing roads, rights of way, well pads, associated oil and gas facilities or other structures." Therefore, it was inferred that said activities were exempt from the acknowledgment, archaeological records inspection/survey, and compliance measures requirements of the Cultural Properties Protection Rule, pursuant to Subsection 19.2.24.10.A.(8) of the New Mexico Administrative Code (NMAC).

Review of United States Department of Agriculture soil survey data indicates that the soil at the Site is classified as Upton gravelly loam with zero (0) to nine (9) percent slopes. The depth to the restrictive layer across the Site is listed as "7 to 20 inches to petrocalcic." Soil survey information is provided in Appendix C.

The Site is not located within Dunes Sagebrush Lizard, Lesser Prairie Chicken, or other sensitive wildlife habitats. No sensitive species or habitats were encountered during the course of remediation activities; therefore, associated timing restrictions and other requirements were not applicable. Additional information regarding protected species and habitats is provided in Appendix D.

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 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 and 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	10	10
	Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA SW-846 Methods 8021b or 8260b	50	50

* Measured in milligrams per kilogram (mg/kg)

** Environmental Protection Agency

† Table I, Section 19.15.29.12 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 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?	3/6/2025	
On what date will (or did) the final sampling or liner inspection occur?	3/18/2025	
On what date will (or was) the remediation complete(d)?	3/19/2025	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	3,337	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	494	
What was the total surface area (sq. ft.) that has or will be remediated?	6,855	
What was the total volume (cy) that has or will be remediated?	392	
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 March 6, 2025, Etech commenced remediation activities at the Site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the Closure Criteria and Reclamation Standards was excavated to the extent practicable and

stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. Olfactory/visual senses and/or a chloride test kit were utilized to field-screen the horizontal and vertical extent of impacted soil and to guide the excavation. The floor and sidewalls of the excavated area (henceforth, "Excavation") were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the Excavation to be submitted for laboratory analysis. A summary of soil sampling events is provided in the following table:

Constituent	Highest Observable Concentration (mg/kg)	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	79,200	DFS 5 @ Surf	3/14/2025	0	In-Situ/Deferred
TPH	5,230	DFS 3 @ Surf	3/14/2025	0	In-Situ/Deferred
GRO+DRO	4,150	DFS 3 @ Surf	3/14/2025	0	In-Situ/Deferred
BTEX	148	DFS 5 @ Surf	3/14/2025	0	In-Situ/Deferred
Benzene	29.0	DFS 6 @ Surf	3/14/2025	0	In-Situ/Deferred

Please reference Table 1 for additional information.

On March 14, 2025, Etech advanced six (6) test trenches (DFS 1 through DFS 6) within the margins of the release in an effort to characterize the affected area adjacent to and/or beneath on-site production equipment (e.g., tanks, steel containment area, electrical facilities, piping, appurtenances, etc.) requiring deferral of remediation (henceforth, "Deferral Area"). In addition, a series of hand-augered soil borings (EH 1 through EH 4 and SH 1) were advanced outside the margins of the Deferral Area to determine the horizontal extent of impacted soil. During the advancement of the test trenches and hand-augered soil borings, soil samples were collected and field-screened for the presence of Volatile Organic Compounds (VOCs) utilizing olfactory/visual senses and/or concentrations of chloride utilizing a Hach Quantab ® chloride test kit. The trenches and borings were advanced in one (1) foot increments until field observations and field test data suggested that BTEX, TPH, and chloride concentrations were below the applicable Closure Criteria and Reclamation Standards.

Based on field observations and field test data, a total of 28 deferral characterization soil samples (DFS 1 @ Surf, DFS 1 @ 1', DFS 1 @ 2', DFS 2 @ Surf through DFS 2 @ 7', DFS 3 @ Surf, DFS 3 @ 1', DFS 3 @ 2', DFS 4 @ Surf through DFS 4 @ 3', DFS 5 @ Surf through DFS 5 @ 3', and DFS 6 @ Surf through DFS 6 @ 5'), as well as five (5) delineation soil samples (EH 1 through EH 4 and SH 1), were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that the horizontal and vertical extent of impacted soil in the Deferral Area was adequately defined and ranged from approximately two (2) feet bgs in trenches DFS 1, DFS 3, and DFS 5 to approximately seven (7) feet bgs in trench DFS 2.

On March 14, 2025, Etech also collected 22 confirmation soil samples (FL 1 @ 1' through FL 21 @ 1' and NW 1) from the floor and sidewalls of the Excavation. The soil samples were 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 Closure Criteria and Reclamation Standards in each of the submitted soil samples, with the exception of samples FL 1 @ 1' and FL 2 @ 1', which exceeded the Closure Criterion for chloride. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by samples FL 1 @ 1' and FL 2 @ 1'.

On March 17, 2025, Etech collected 21 confirmation soil samples (FL 22 @ 1' through FL 38 @ 1', NW 2, EW 1, SW 1, and WW 1) from the floor and sidewalls of the Excavation. The soil samples were 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 Closure Criteria and Reclamation Standards in each of the submitted soil samples.

On March 18, 2025, Etech collected two (2) confirmation soil samples (FL 1 @ 2' and FL 2 @ 2') from the floor of the Excavation. The soil samples were 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 Closure Criteria and Reclamation Standards in each of the submitted soil samples.

The final dimensions of the Excavation were approximately 167 feet in length, 18 to 66 feet in width, and one (1) to seven (7) feet in depth. During the course of remediation activities, Etech transported approximately 392 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.

The extents of the Excavation and Deferral Area, as well as the locations of the test trenches, hand-augered soil borings, and confirmation soil samples, are depicted in Figure 4, "Sample Location Map". Soil chemistry data is summarized in Table 1. A photographic log of remediation activities is provided in Appendix E. Field data logs are provided in Appendix F. Laboratory analytical reports are provided in Appendix G.

On November 11, 2025, based on laboratory analytical results and field activities conducted to that point, a *Remediation Summary & Deferral Request* was submitted to the NMOCD requesting deferral of remediation in the Deferral Area. The request was denied on January 8, 2026, due to inconsistencies in the C-141 application (specifically the selection of remediation closure approval rather than deferral of remediation), insufficient laboratory analytical documentation of horizontal delineation efforts, and inadequate photographic documentation of the Deferral Area. Copies of all regulatory correspondence are provided in Appendix H.

On January 8, 2026, a representative of the NMOCD was consulted via telephone to determine a path forward to approval of a deferral request. As summarized in Section 1.0 above, portions of the subject release affected an area previously impacted by releases that occurred in July 2021 and April 2022. Due to the infeasibility of collecting additional horizontal delineation samples outside the footprint of the previously deferred area, authorization was received from the NMOCD to utilize laboratory analytical results from soil samples collected in support of the November 2023 *Remediation Summary & Deferral Request* (2023 Deferral Request) as documentation of horizontal delineation of the Deferral Area. Submission of additional photographs of the Deferral Area was also required.

On January 8, 2026, in accordance with NMOCD requirements, Etech returned to the Site and collected additional photographs of the Deferral Area. The photographs are provided in Appendix E. A map depicting the extents of the previously excavated and deferred areas, as well as the locations of confirmation and deferral characterization soil samples from the 2023 Deferral Request, is provided as Figure 5, "Sample Location Map - Previous Incidents."

5.0 DEFERRAL REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What is the remaining surface area (sq. ft.) that will still need to be remediated if a deferral is granted?	3,337	
What is the remaining volume (cy) that will still need to be remediated if a deferral is granted?	494	
Enter the facility ID (f#) on which the deferral should be granted:	fAPP2125142480	
Enter the API (30-) on which the deferral should be granted:	30-015-31075	
Contamination does not cause an imminent risk to human health, the environmental or groundwater:	TRUE	

Remediation activities were conducted in accordance with NMOCD regulatory guidelines. Impacted soil affected above the Closure Criteria and Reclamation Standards was excavated to the extent practicable and transported to an NMOCD-approved disposal facility. Laboratory analytical results from submitted soil samples indicate that impacted soil in the Deferral Area has been fully delineated, and in-situ concentrations of BTEX, TPH, and chloride in the Excavation are below the applicable Closure Criteria and Reclamation Standards. Remediation of impacted soil affected above the Closure Criteria remaining in-situ in the Deferral Area will be completed upon decommissioning and abandonment of the facility, in accordance with Sections 19.15.29.12 and 19.15.29.13 NMAC.

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste containing earthen material with concentrations of less than 600 mg/kg chloride, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg benzene?	<input 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?	6,855	
What was the total volume (in cubic yards) reclaimed?	353	

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

The release was limited to the production pad of an active tank battery and did not impact the adjacent pasture. Final reclamation and restoration will be conducted upon decommissioning and abandonment of the facility. The reclaimed area will be revegetated with an agency and/or landowner-approved seed mix, which has been certified to be free of noxious weeds, during the first favorable growing season following closure of the facility. The seed will be installed at the prescribed rate utilizing either a seed drill or a broadcaster and harrow.

7.0 LIMITATIONS

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

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

8.0 DISTRIBUTION

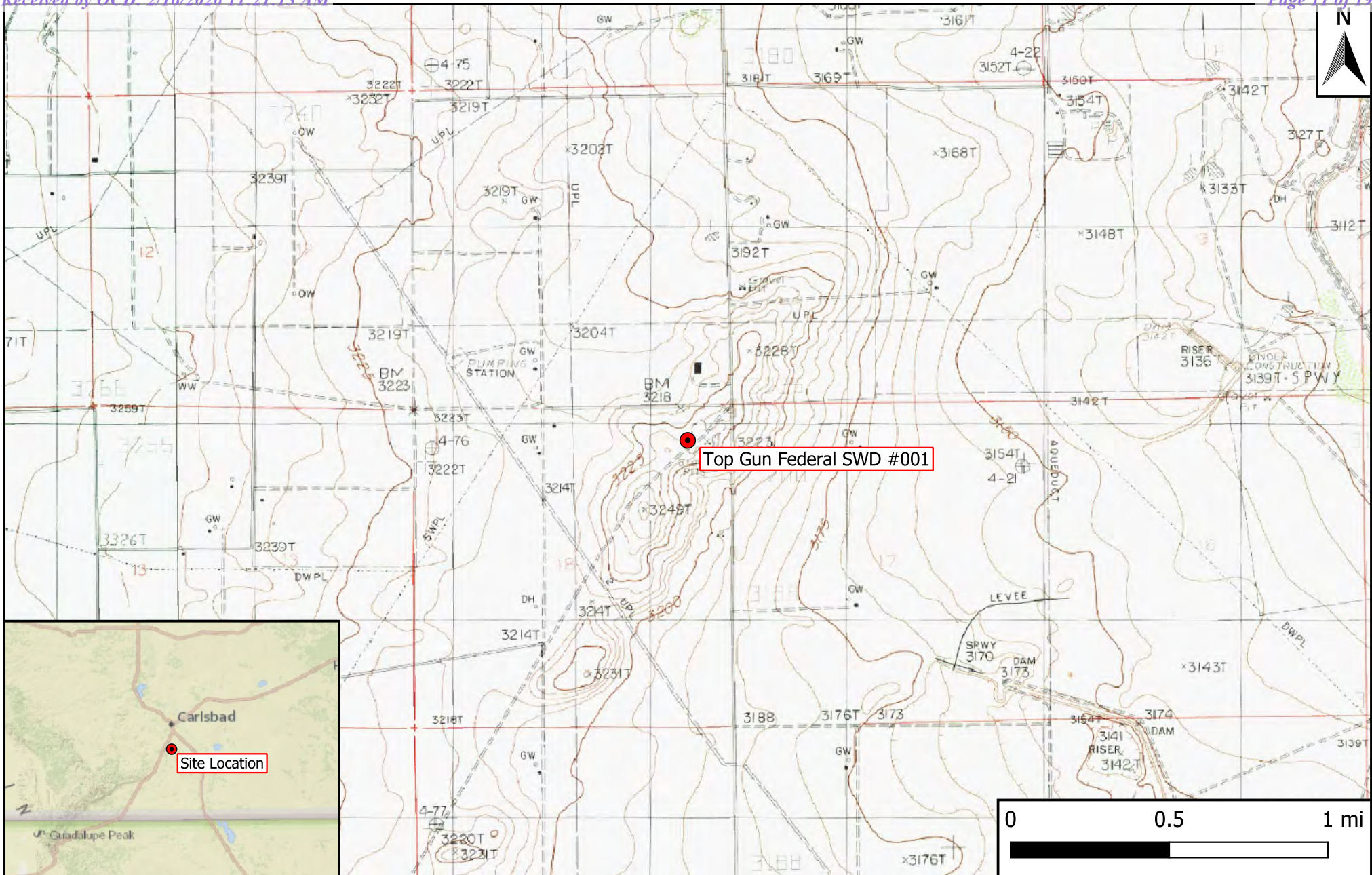
Mewbourne Oil Company
4801 Business Park Blvd.
Hobbs, NM 88240

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

Hobbs Field Office
New Mexico State Land Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240

(Electronic Submission)

Figures



Top Gun Federal SWD #001

Site Location

Legend

- Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico



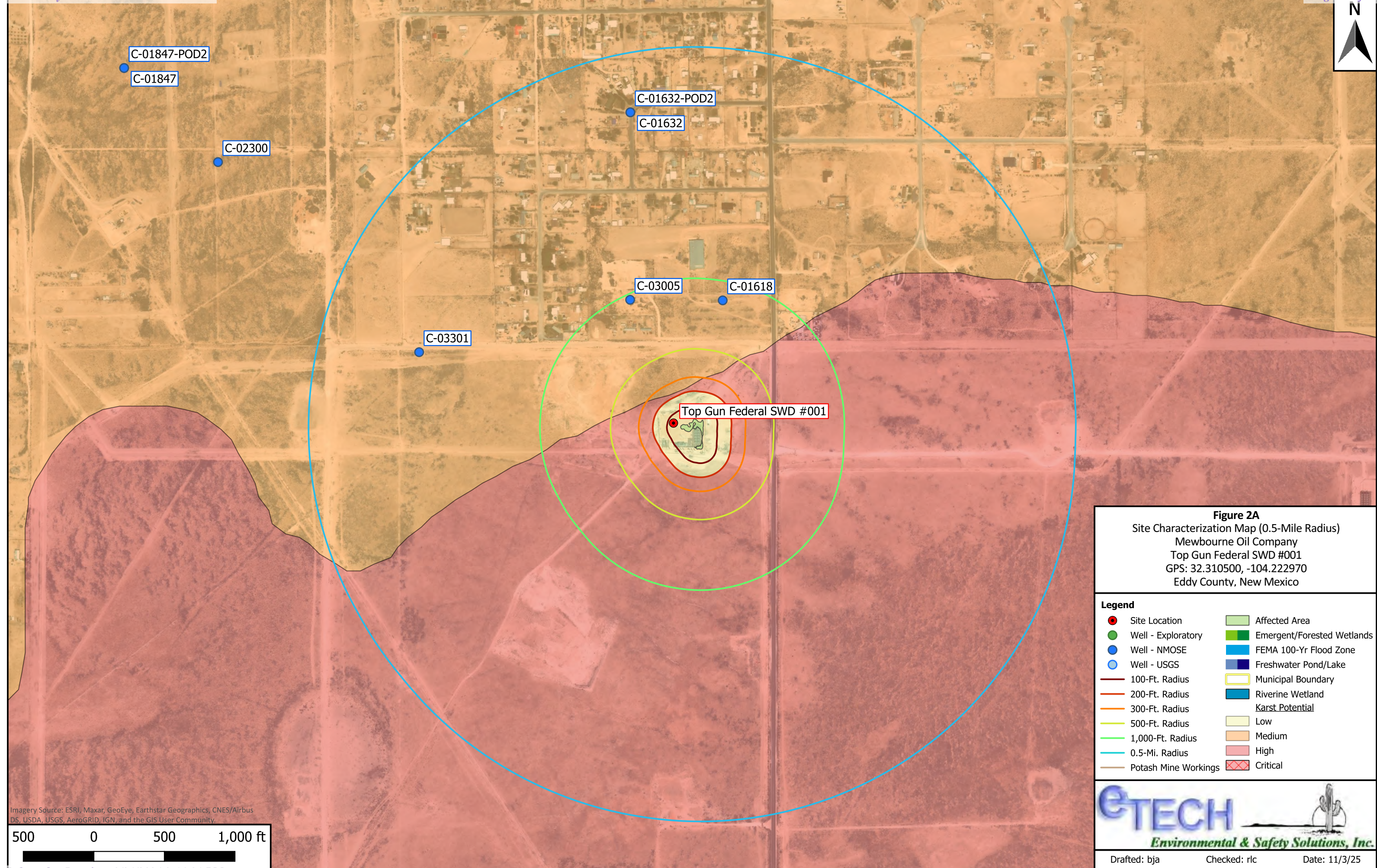
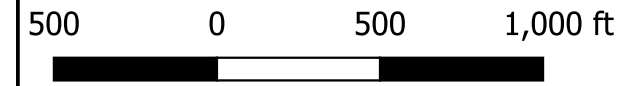


Figure 2A
 Site Characterization Map (0.5-Mile Radius)
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico

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

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



Drafted: bja Checked: rlc Date: 11/3/25

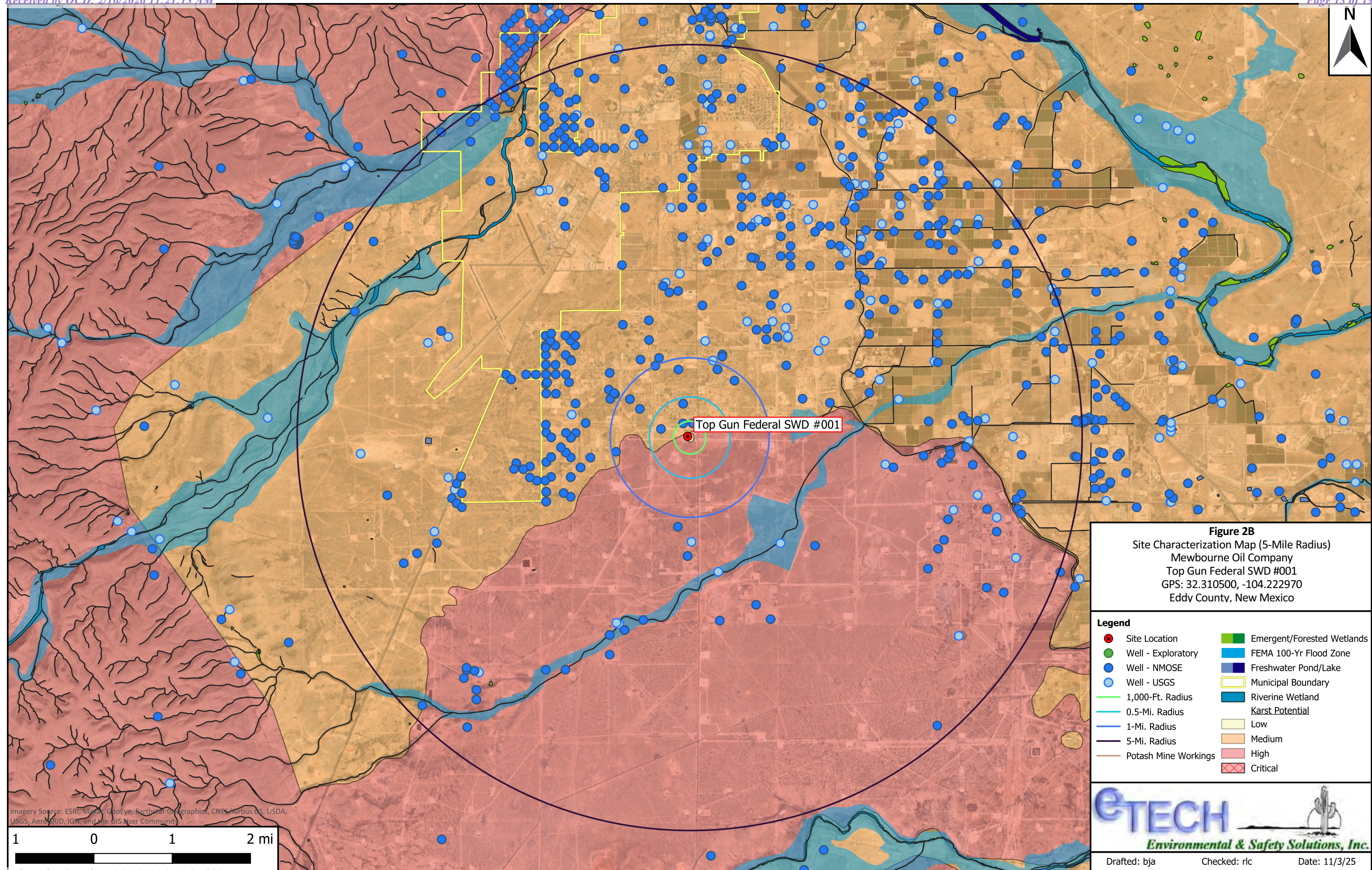


Figure 2B
 Site Characterization Map (5-Mile Radius)
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico

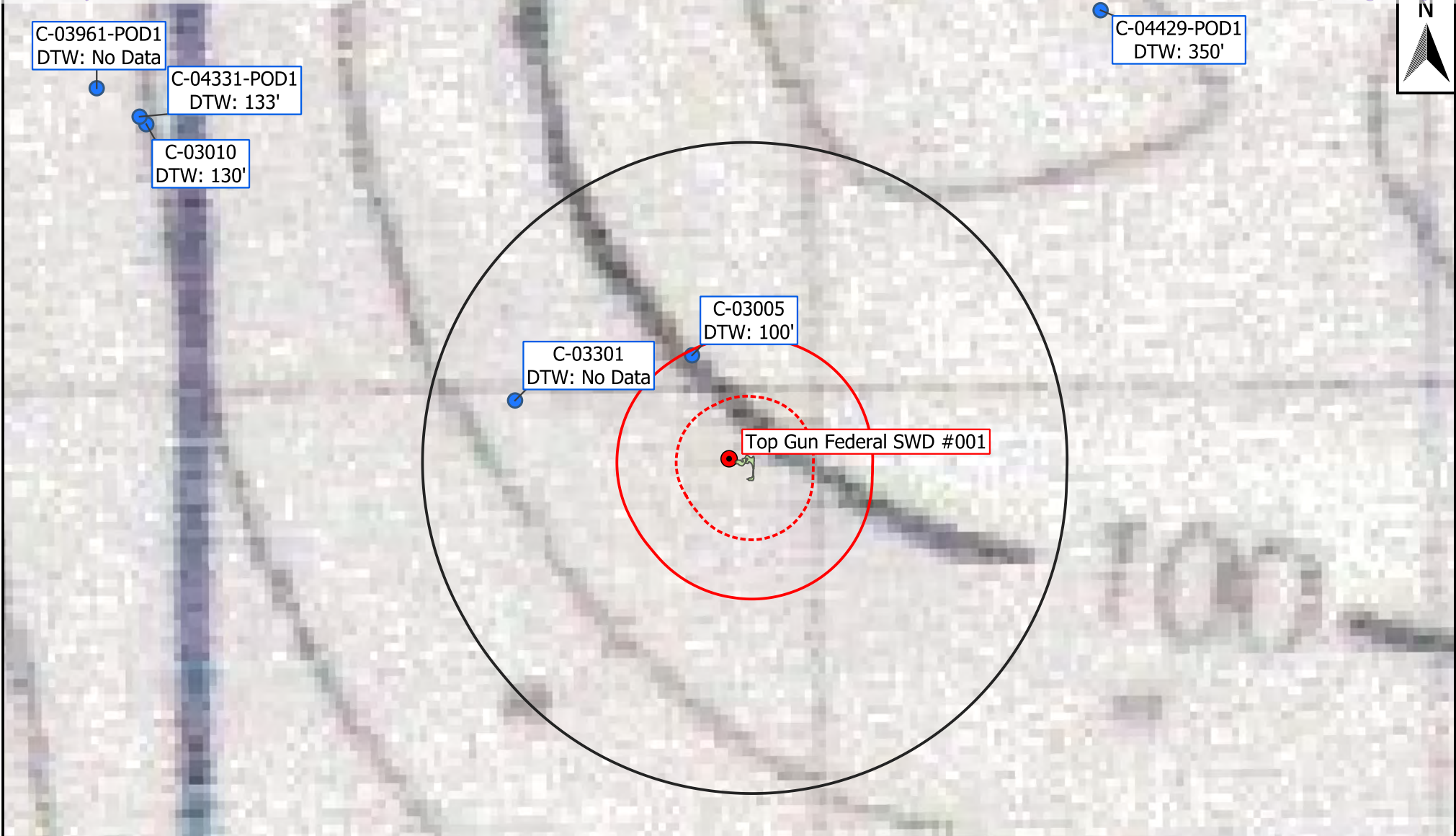
- Legend**
- Site Location
 - Well - Exploratory
 - Well - NMOSE
 - Well - USGS
 - 1,000-Ft. Radius
 - 0.5-Mi. Radius
 - 1-Mi. Radius
 - 5-Mi. Radius
 - Potash Mine Workings
 - Emergent/Forested Wetlands
 - FEMA 100-Yr Flood Zone
 - Freshwater Pond/Lake
 - Municipal Boundary
 - Riverine Wetland
 - Karst Potential
 - Low
 - Medium
 - High
 - Critical

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

1 0 1 2 mi

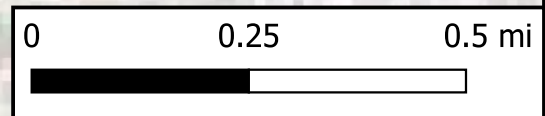
ETECH
 Environmental & Safety Solutions, Inc.

Drafted: bja Checked: rlc Date: 11/3/25



Source: NMOSE and USGS

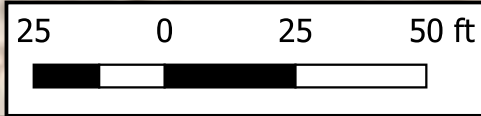
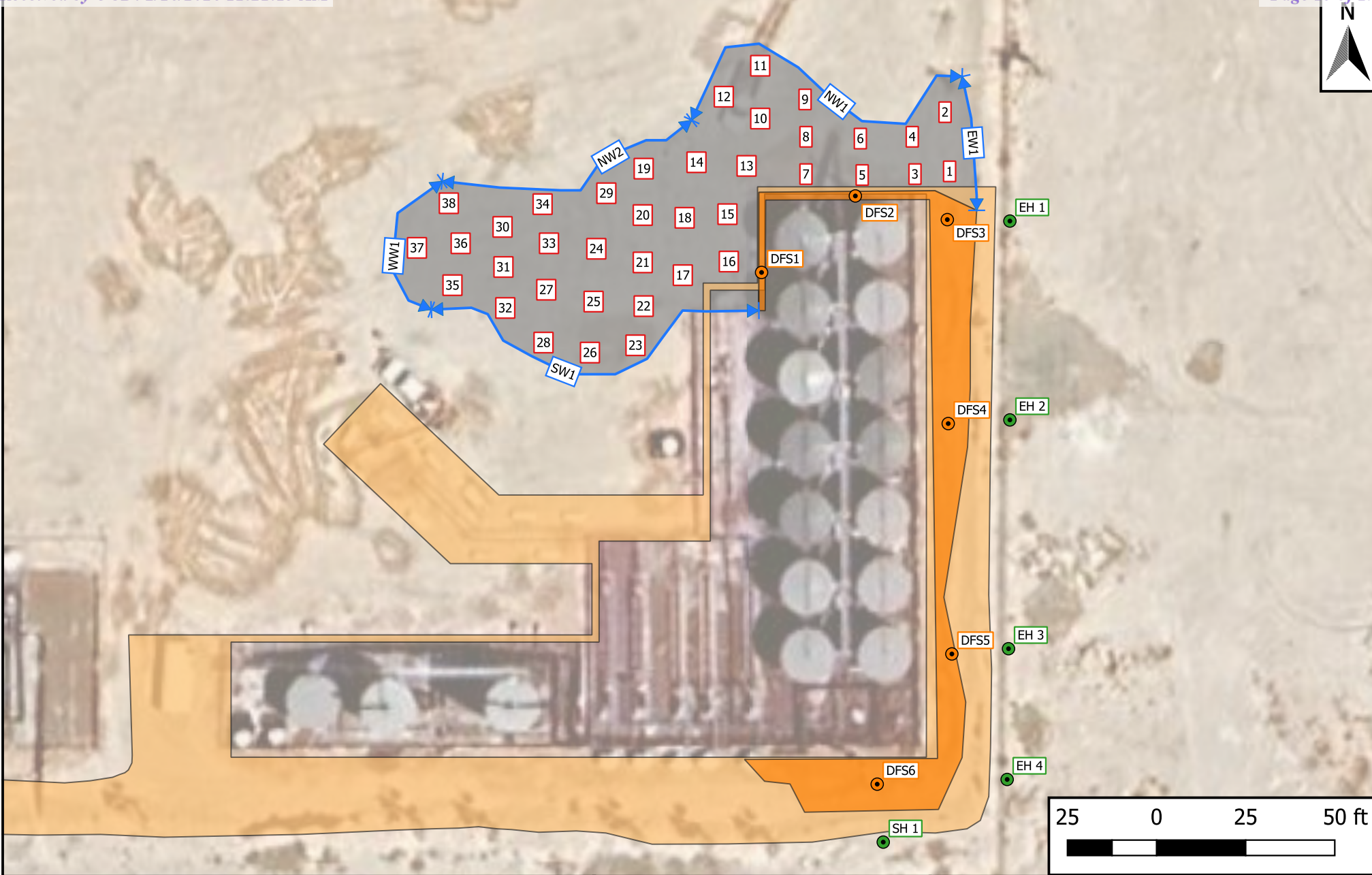
Note: Only wells with depth to groundwater data ≤25 years old are depicted.



Legend	
	Site Location
	Well - NMOSE
	Well - USGS
	Well - Other
	Affected Area
	500-Ft Radius
	1,000-Ft Radius
	0.5-Mi Radius

Figure 3
 Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico

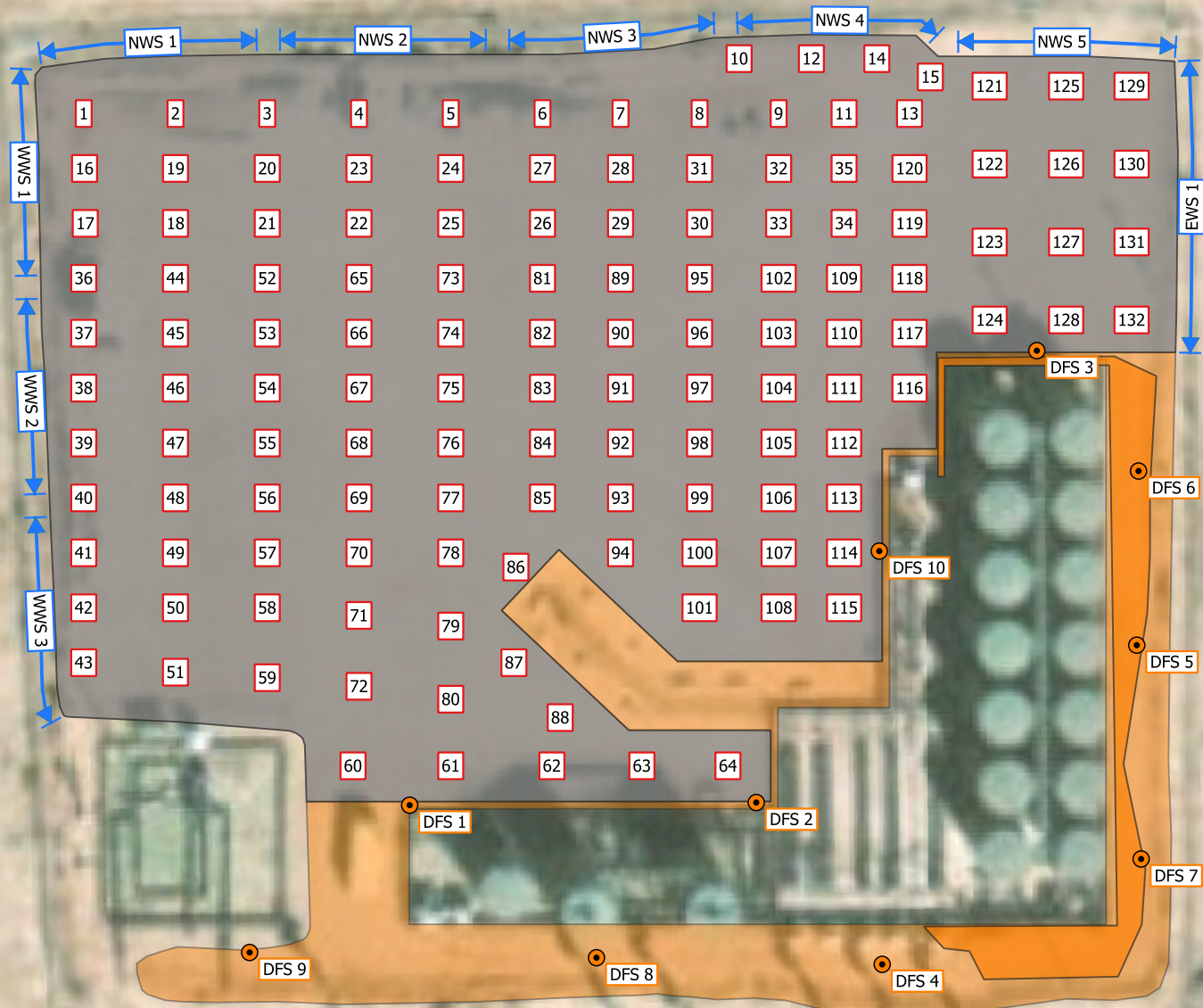
Drafted: bja Checked: rlc Date: 11/3/25



Legend	
	Excavation Extent (~6,855 ft ²)
	Deferral Area (~2,189 ft ²)
	Previously Deferred Area
	Composite Floor Sample
	Composite Wall Sample
	Deferral Characterization Sample
	Delineation Sample

Figure 4
 Sample Location Map
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico





Legend

- New Deferral Area (~2,189 ft²)
- Previously Deferred Area
- Previously Excavated Area
- Composite Floor Sample
- Composite Wall Sample
- Deferral Characterization Sample

Figure 5

Sample Location Map
 Previous Incidents
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 2/10/26

Tables

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #001 NMOCD Ref. #: nAPP2507060025												
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)	Type	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)
EH 1	3/14/2025	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
EH 2	3/14/2025	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
EH 3	3/14/2025	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
EH 4	3/14/2025	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
SH 1	3/14/2025	1	D	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
DFS 1 @ Surf	3/14/2025	0	R	In-Situ	<0.050	<0.300	<10.0	445	445	<10.0	445	752
DFS 1 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
DFS 1 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
DFS 2 @ Surf	3/14/2025	0	R	In-Situ	<0.050	<0.300	<10.0	180	180	14.6	195	25,200
DFS 2 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,460
DFS 2 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
DFS 2 @ 3'	3/14/2025	3	R	In-Situ	<0.050	<0.300	<10.0	360	360	366	726	1,810
DFS 2 @ 4'	3/14/2025	4	R	In-Situ	<0.050	<0.300	<10.0	362	362	380	742	1,720
DFS 2 @ 5'	3/14/2025	5	R	In-Situ	<0.050	<0.300	<10.0	145	145	105	150	2,720
DFS 2 @ 6'	3/14/2025	6	R	In-Situ	<0.050	<0.300	<10.0	45.4	45.4	10.0	55.4	2,960
DFS 2 @ 7'	3/14/2025	7	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
DFS 3 @ Surf	3/14/2025	0	R	In-Situ	<0.050	<0.527	17.1	4,130	4,150	1,080	5,230	44,800
DFS 3 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,320
DFS 3 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
DFS 4 @ Surf	3/14/2025	0	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,880
DFS 4 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,550
DFS 4 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	752
DFS 4 @ 3'	3/14/2025	3	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
DFS 5 @ Surf	3/14/2025	0	R	In-Situ	<0.160	10.6	148	1,660	1,810	237	2,050	79,200
DFS 5 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570
DFS 5 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
DFS 5 @ 3'	3/14/2025	3	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
DFS 6 @ Surf	3/14/2025	0	R	In-Situ	<0.668	29.0	109	282	391	38.8	430	1,220
DFS 6 @ 1'	3/14/2025	1	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,440
DFS 6 @ 2'	3/14/2025	2	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,200
DFS 6 @ 3'	3/14/2025	3	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,510
DFS 6 @ 4'	3/14/2025	4	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,390
DFS 6 @ 5'	3/14/2025	5	R	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 1 @ 1'	3/14/2025	1	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	944
FL 1 @ 2'	3/18/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 2 @ 1'	3/14/2025	1	C	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
FL 2 @ 2'	3/18/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 3 @ 7'	3/14/2025	7	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 4 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 5 @ 2'	3/14/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 6 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
 D - Delineation B - Background
 C - Confirmation O - Other
 R - Deferral

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #001 NMOCD Ref. #: nAPP2507060025												
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)	Type	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)
FL 7 @ 3'	3/14/2025	3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 8 @ 2'	3/14/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 9 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 10 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 11 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 12 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 13 @ 2'	3/14/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 14 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 15 @ 2'	3/14/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL 16 @ 2'	3/14/2025	2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 17 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 18 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 19 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	10.1	10.1	<10.0	10.1	336
FL 20 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FL 21 @ 1'	3/14/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 22 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FL 23 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FL 24 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	11.7	11.7	<10.0	11.7	416
FL 25 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FL 26 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FL 27 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 28 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 29 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 30 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 31 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL 32 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 33 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 34 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 35 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 36 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 37 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
FL 38 @ 1'	3/17/2025	1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
NW 1	3/14/2025	0-3	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
NW 2	3/17/2025	0-1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
EW 1	3/17/2025	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SW 1	3/17/2025	0-2	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
WW 1	3/17/2025	0-1	C	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

A - Assessment F - Backfill
 D - Delineation B - Background
 C - Confirmation O - Other
 R - Deferral

Table 2 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
Delineation & Deferral Characterization Samples											
TT-1 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	86,400
TT-1 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
TT-1 @ 4'	7/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
TT-2 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,760
TT-2 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	832
TT-2 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
TT-3 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	12,800
TT-3 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-3 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
TT-4 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	159	159	125	284	13,600
TT-4 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
TT-4 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
TT-5 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,280
TT-5 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,060
TT-5 @ 4'	7/22/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,920
TT-5 @ 6'	7/22/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
TT-6 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16,100
TT-6 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
TT-6 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-7 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	20,800
TT-7 @ 2'	7/22/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
TT-7 @ 4'	7/22/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
TT-8 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	13,200
TT-8 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,300
TT-8 @ 4'	7/22/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,340
TT-8 @ 6' Refusal	7/22/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
TT-9 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,000
TT-9 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
TT-9 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
TT-10 Surface Sample	7/22/2022	0	Excavated	<0.050	<0.300	<10.0	98.7	98.7	78.1	177	12,400
TT-10 @ 2'	7/22/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
TT-10 @ 3'	7/22/2022	3	In-Situ	<0.050	<0.300	<10.0	11.6	11.6	12.1	23.7	224
DFS 1 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,070
DFS 1 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
DFS 1 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,570
DFS 1 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
DFS 1 @ 4'	9/6/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,420
DFS 1 @ 5'	9/6/2022	5	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,680
DFS 1 @ 6'	9/6/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
DFS 2 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,560
DFS 2 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,640
DFS 2 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,360
DFS 2 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,360
DFS 2 @ 4'	9/6/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
DFS 3 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	132	132	20.4	152	20,000
DFS 3 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,560

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 2 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
DFS 3 @ 2'	9/6/2022	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	9,600
DFS 3 @ 3'	9/6/2022	3	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,920
DFS 3 @ 4'	9/6/2022	4	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	992
DFS 3 @ 5'	9/6/2022	5	Deferral	<0.050	<0.300	<10.0	72.0	72.0	<10.0	72.0	880
DFS 3 @ 6'	9/6/2022	6	In-Situ	<0.050	<0.300	<10.0	15.0	15.0	<10.0	15.0	288
DFS 4 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
DFS 4 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,150
DFS 4 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
DFS 4 @ 3'	9/6/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
DFS 5 @ Surface	9/6/2022	0	Deferral	<0.050	<0.300	<10.0	33.0	33.0	<10.0	33.0	24,400
DFS 5 @ 1'	9/6/2022	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,220
DFS 5 @ 2'	9/6/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
DFS 6 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	30,800
DFS 6 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
DFS 7 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	8,130
DFS 7 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
DFS 7 @ 2'	2/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
DFS 8 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	37.6	37.6	<10.0	37.6	832
DFS 8 @ 1'	2/23/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	3,600
DFS 8 @ 2'	2/23/2023	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
DFS 8 @ 3'	2/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
DFS 8 @ 4'	2/23/2023	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
DFS 9 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	14,600
DFS 9 @ 1'	2/23/2023	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
DFS 10 @ Surface	2/23/2023	0	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	28,800
DFS 10 @ 1'	2/23/2023	1	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,360
DFS 10 @ 2'	2/23/2023	2	Deferral	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	816
DFS 10 @ 3'	2/23/2023	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
Excavation Samples											
NWS 1	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
NWS 2	8/18/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
NWS 3	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
NWS 4	8/18/2022	0.5-6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
NWS 5	9/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
EWS 1	9/6/2022	0.5-2.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
WWS 1	8/18/2022	0.5-9.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
WWS 2	8/18/2022	0.5-5.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
WWS 3	8/18/2022	0.5-6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 1 @ 4'	8/12/2022	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,120
FS 1 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 2 @ 6'	8/12/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	672
FS 2 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FS 3 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 4 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
FS 5 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 6 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 7 @ 3'	8/12/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 2 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 7 @ 4'	8/18/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 8 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 9 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 10 @ 5'	8/12/2022	5	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	720
FS 10 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 11 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
FS 12 @ 6'	8/12/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	880
FS 12 @ 6.5'	8/18/2022	6.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 13 @ 3'	8/12/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FS 14 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 15 @ 2'	8/12/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 16 @ 6'	8/15/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,960
FS 16 @ 10'	8/23/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	10.5	10.5	592
FS 17 @ 6'	8/15/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,980
FS 17 @ 10'	8/23/2022	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 18 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	560
FS 19 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 20 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 21 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 22 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 23 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 24 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 25 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 26 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 27 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 28 @ 3'	8/15/2022	3	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	704
FS 28 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 29 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 30 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 31 @ 3'	8/15/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FS 32 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 33 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 34 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 35 @ 2'	8/15/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
36 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
37 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
38 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	320
39 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 40 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	576
FS 41 @ 6'	8/18/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FS 41 @ 7'	8/25/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 42 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 43 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	496
FS 44 @ 6'	8/18/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 45 @ 6'	8/18/2022	6	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	640
FS 45 @ 7'	8/25/2022	7	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 46 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 2 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 47 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 48 @ 4'	8/23/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
49 @ 6'	8/19/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 50 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 51 @ 6'	8/23/2022	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
52 @ 3'	8/19/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	544
FS 53 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 54 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	11.0	11.0	<10.0	11.0	160
FS 55 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 56 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 57 @ 3'	8/23/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 58 @ 2'	8/23/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 59 @ 2'	8/23/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,260
FS 59 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 60 @ 4'	8/25/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 61 @ 9'	8/25/2022	9	In-Situ	<0.050	<0.300	<10.0	15.9	15.9	21.1	37.0	368
FS 62 @ 3'	8/25/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	592
FS 63 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FS 64 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 65 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 66 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 67 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FS 68 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 69 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 70 @ 2'	8/25/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	528
FS 71 @ 2'	8/25/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FS 71 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	240
FS 72 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 73 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 74 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 75 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 76 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 77 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 78 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 79 @ 3'	8/26/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 80 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
FS 81 @ 2'	8/26/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 82 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 83 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FS 84 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 85 @ 2'	8/30/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
FS 85 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	192
FS 86 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
FS 87 @ 3'	8/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 88 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 89 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 90 @ 2'	8/30/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Table 2 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Top Gun Federal SWD #1 NMOCD Ref. #: nAPP2120037259, nAPP2120038621 & nAPP2212348289											
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)
FS 91 @ 3'	8/30/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 92 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	384
FS 93 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 94 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 95 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 96 @ 2'	9/1/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 97 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 98 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 99 @ 3'	9/1/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 100 @ 4'	9/1/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 101 @ 4'	9/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FS 102 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 103 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	400
FS 104 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FS 105 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FS 106 @ 4'	9/2/2022	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 107 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 108 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 109 @ 2'	9/2/2022	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	624
FS 109 @ 3'	9/9/2022	3	In-Situ	-	-	-	-	-	-	-	64.0
FS 110 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 111 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FS 112 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FS 113 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 114 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FS 115 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FS 116 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FS 117 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 118 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
FS 119 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 120 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FS 121 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 122 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
FS 123 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FS 124 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FS 125 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FS 126 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FS 127 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 128 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FS 129 @ 3'	9/2/2022	3	In-Situ	<0.050	<0.300	<10.0	13.8	13.8	<10.0	13.8	400
FS 130 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FS 131 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FS 132 @ 2'	9/2/2022	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.


Appendix A

Depth to Groundwater Information

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03005	SW	SE	SE	07	23S	27E	573052.0	3575384.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	1227	Driller Company:	B & H DRILLING		
Driller Name:	HAMMOND, JOHN B.				
Drill Start Date:	2004-07-07	Drill Finish Date:	2004-07-31	Plug Date:	
Log File Date:	2004-08-05	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	2
Casing Size:	6.00	Depth Well:	140	Depth Water:	100

Water Bearing Stratifications:

Top	Bottom	Description
0	2	Other/Unknown
20	60	Limestone/Dolomite/Chalk
60	100	Shale/Mudstone/Siltstone
100	120	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
100	130

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

11/3/25 3:54 PM MST

Point of Diversion Summary

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STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Justin Rankin Owner's Well No. 1
Street or Post Office Address 7422 Dulce
City and State Carlsbad, New Mex. 88120

Well was drilled under Permit No. 286257, C-3005 and is located in the:

a. SW 1/4 SE 1/4 SE 1/4 of Section 7 Township 23 S Range 27 E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. 2 of Block No. 3 of the Wagon Wheel sub #4
Subdivision, recorded in Eddy County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor H & H Drilling John Hammond WD- License No. 1227
Address Box 657 Artesia NM 88210
Drilling Began 7-7-04 Completed 7-31-04 Type tools Cable Size of hole 10 in.
Elevation of land surface or _____ at well is _____ ft. Total depth of well 140 ft.
Completed well is shallow artesian. Depth to water upon completion of well 100 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
0	2	top Sand		
2	60	lime		
60	100	Tan shale		
100	120	cong.	TD 140 Water 100-120	2 gal Per min

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6"	NA	NA	0	140'	140'	NA	100	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

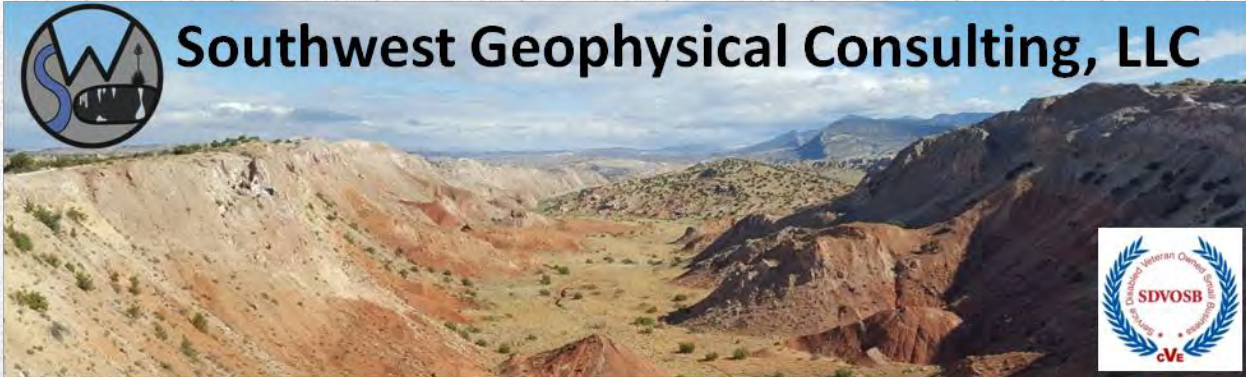
No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

STATE ENGINEER OFFICE
FOSHILL, NEW MEXICO
2007 AUG -5 PM 1:05

Date Received 8-5-04 FOR USE OF STATE ENGINEER ONLY 286253-467001
Quad _____ FWL _____ FSL _____
File No. C-3005 Use Dom. Location No. 23.27.7.443

Appendix B

Environmental Karst Study Report



Environmental Karst Study Report Mewbourne Top Gun SWD Eddy County, New Mexico

Prepared For:

**eTech Environmental & Safety Solutions, Inc.
13000 West County Road 100
Odessa, TX 79765**

Within 200 feet of the spill delineation boundary:

Negative **Positive for surface karst**

Stable **Unstable Ground**

Karst Monitor Recommended

June 20, 2025

ETEC-017-20250401

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MMXXV

TABLE OF CONTENTS

FRONT MATTER..... i

TABLE OF CONTENTS.....ii

LIST OF FIGURES.....iii

LIST OF TABLES.....iii

1.0 INTRODUCTION..... 1

 1.1 Goals of this Study..... 1

 1.2 Summary of Findings..... 1

 1.3 Affected Environment..... 1

 1.4 Limitations of Report..... 3

2.0 LOCATION AND DESCRIPTION OF STUDY AREA..... 4

 2.1 Description of Site..... 4

 2.2 Local Geology Summary..... 5

 2.3 Description of Survey..... 6

 2.3.1 Surface Karst Survey..... 6

 2.3.2 Geophysical Survey..... 8

3.0 RESULTS..... 10

 3.1 Surface Karst Survey..... 10

 3.2 Geophysical Survey..... 11

4.0 DISCUSSION..... 12

5.0 SUMMARY..... 14

6.0 DISCLOSURE STATEMENT 14

7.0 REFERENCES..... 16

8.0 GLOSSARY OF TERMS..... 18

9.0 ATTESTATION 20

LIST OF FIGURES

Figure 1: Karst occurrence zone overview..... 2

Figure 2: Land ownership and PLSS overview..... 4

Figure 3: Geology overview 5

Figure 4: Surface survey overview 7

Figure 5: Geophysical survey overview 8

Figure 6: Surface karst survey results 10

Figure 7: 2D inverted resistivity sections..... 11

Figure 8: Data overlay 13

LIST OF TABLES

Table 1: Survey Line Data Table 9

Table 2: Software Information and Settings..... 9

1.0 INTRODUCTION

This report was commissioned by eTech Environmental & Safety Solutions, Inc. (hereinafter referred to as "the client"), on April 1, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Mewbourne Top Gun SWD release site (hereinafter termed "TGSR") centered at N 32.310330° W 104.222164°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within the spill delineation boundary of the Mewbourne Top Gun SWD release as provided by the client via e-mail (**Top Gun SWD GeoMeasure_2025-03-01-09-07-23.kmz**) on April 1, 2025, using electrical resistivity imaging^[3].

1.2 Summary of Findings

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the TGSR geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The TGSR project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)^[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[4].

Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated critical or high karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

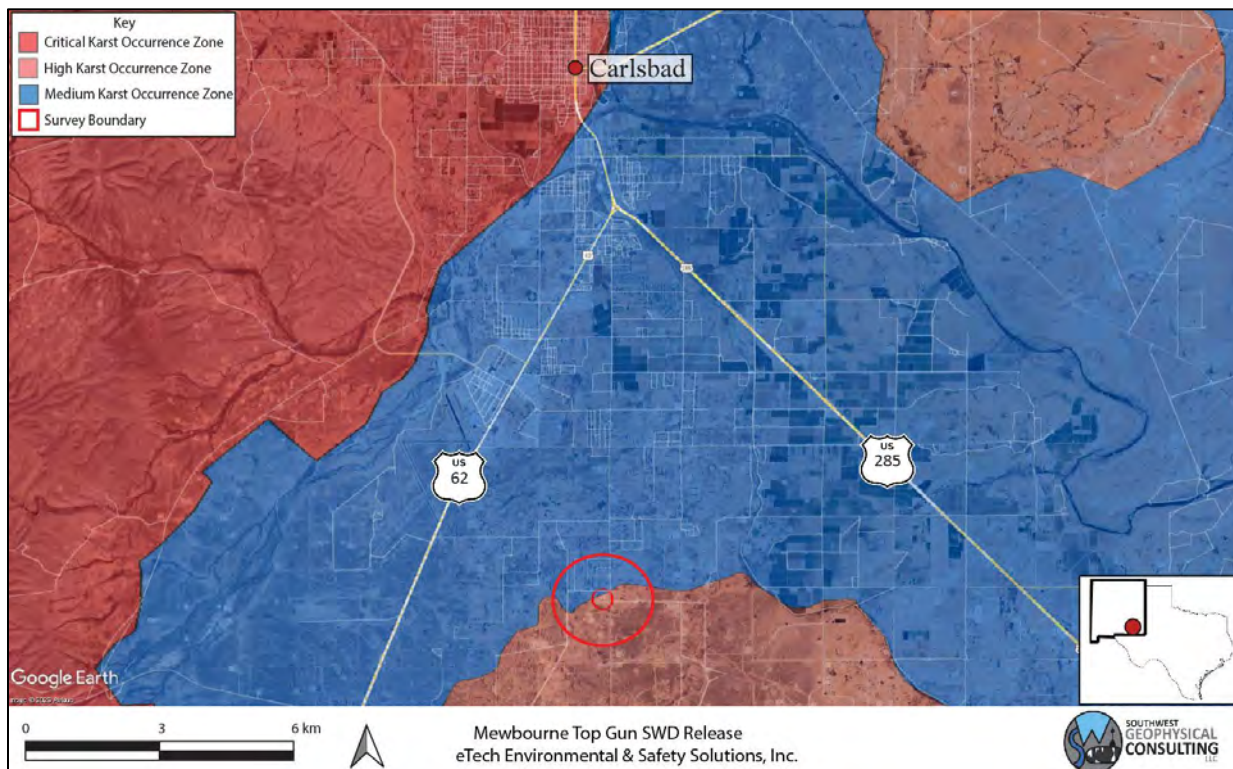


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of eTech Environmental & Safety Solutions, Inc., in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 12.0 kilometers (7.5 miles) south of Carlsbad, New Mexico, east of U.S. Highway 62 and west of Old Caverns Highway. The release area is located within the NE $\frac{1}{4}$ section of section 18, NM T23S R27E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ^[5] (**Figure 1**) and within NMSLO managed land^[10] (**Figure 2**).

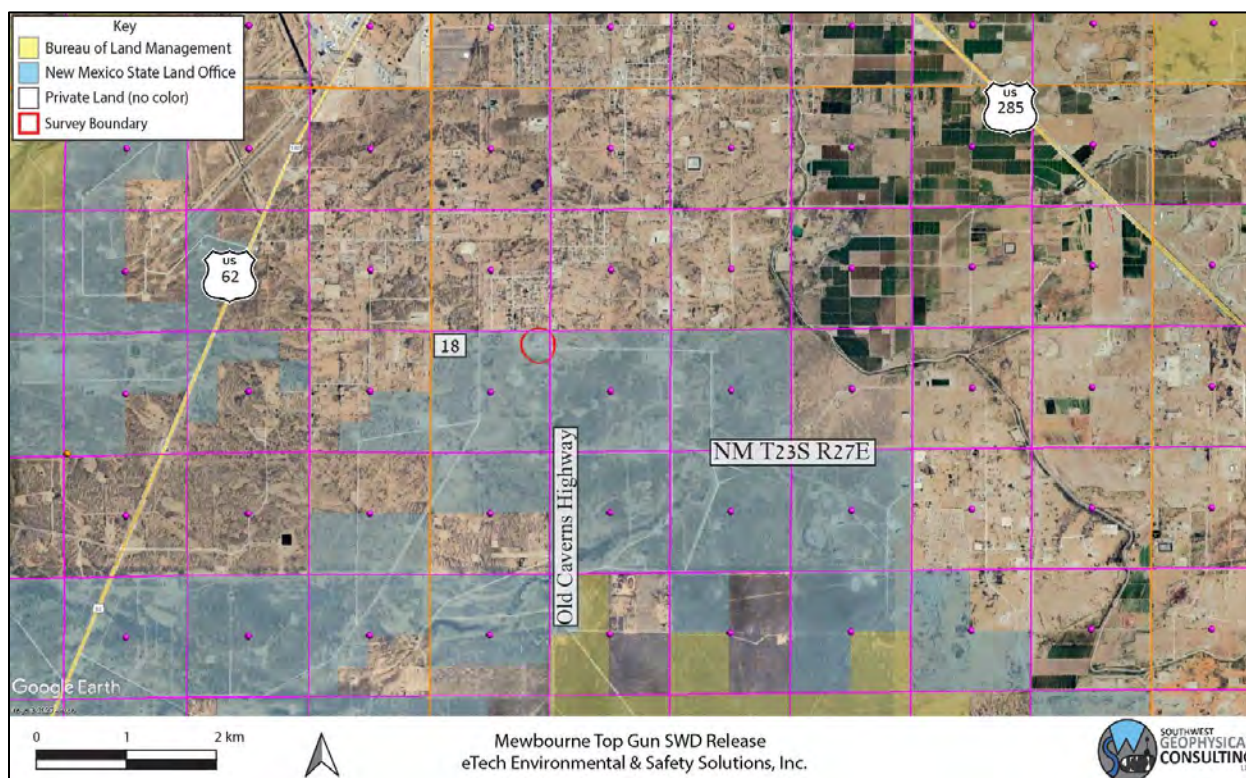


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the TGSR survey is located at an elevation of 985 meters (3,232 feet), \pm 2 meters (6.6 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont (Qp), and alluvium (Qal)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].

The Pru overlies the Permian Salado Formation (Psl), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

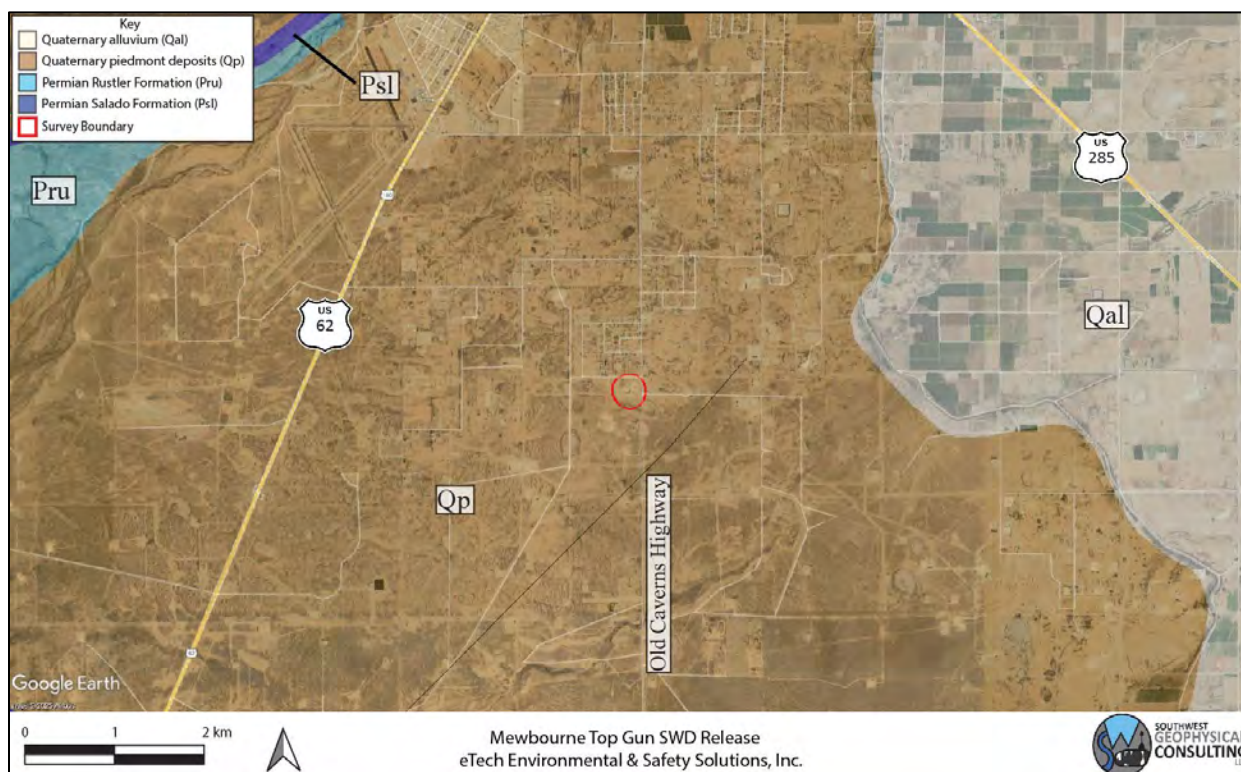


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated April 15, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated April 25, 2025^[15]; the Otis, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].

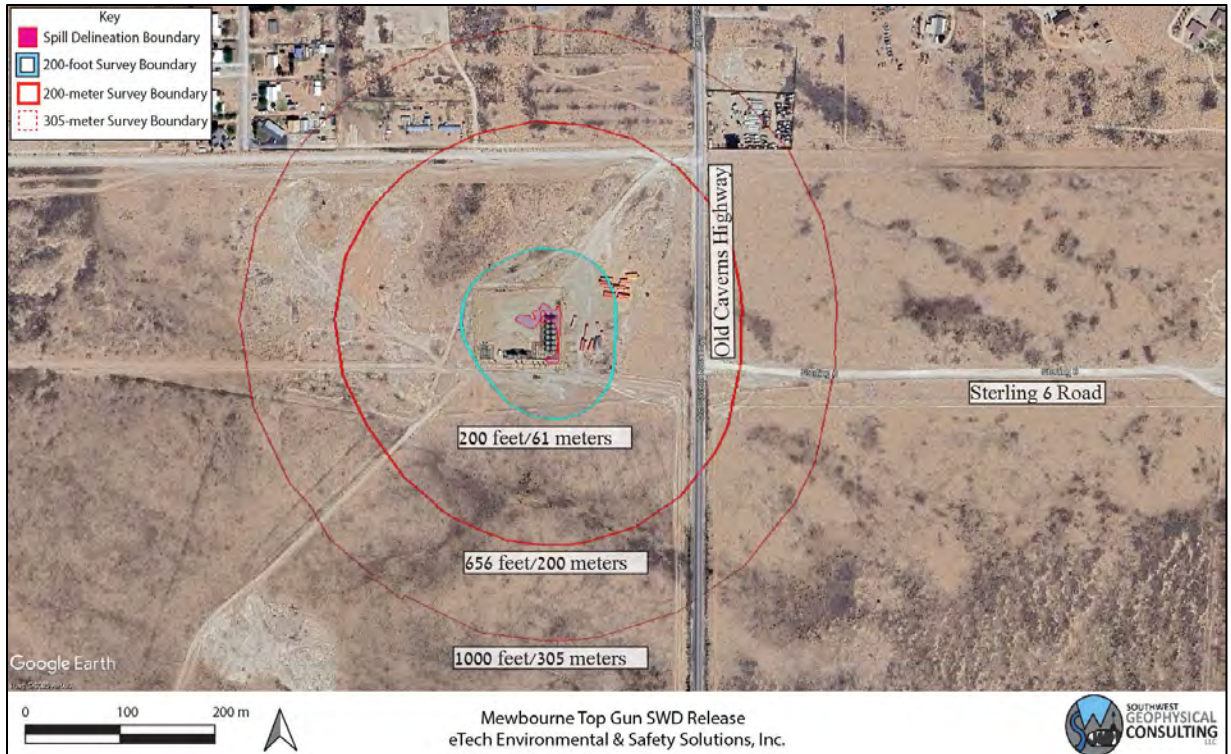


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: April 15, 2023. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on April 11, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Britt Bommer of Southwest Geophysical Consulting on May 11, 2025.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 28-electrode array of 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole strong-gradient configuration; line one is laid out south to north while line two is laid out west to east. Both lines consisted of 28 electrodes at 5-meter spacing, resulting in 135-meter-long arrays (**Figure 5, Table 1**). A preconfigured command file was used to run the data collection (DDSG28). This electrode configuration provided a depth of investigation of 27 meters (89 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.



Figure 5: Geophysical survey overview. Two survey lines were conducted with 28 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files TGSR_ERI_Points.xlsx and ETEC-017-20250401_TGSR_Data_Files.kmz.

File Name:	Completed By:	Date:
TGSR01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	5/12/2025
TGSR02.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on May 12, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features located within the 200-foot (61-meter)^[1] survey area surrounding the spill delineation boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (Figure 6).

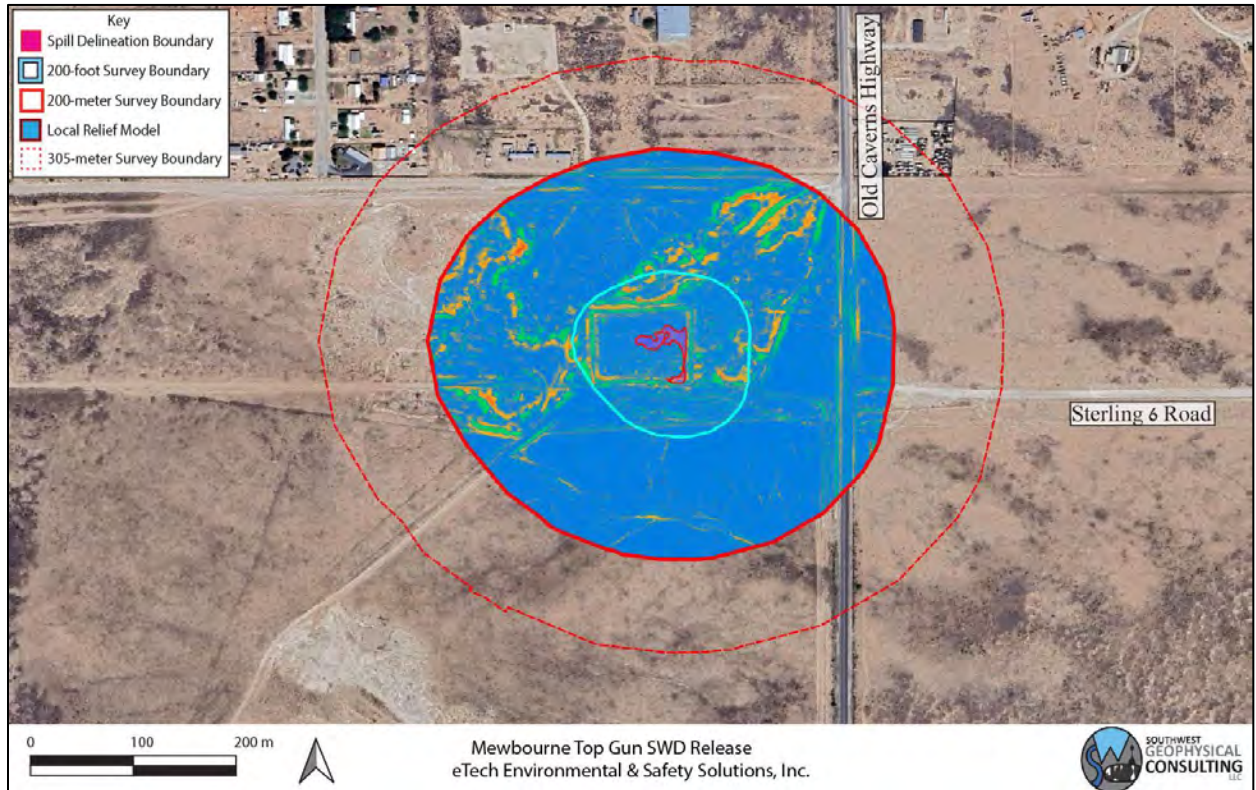


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: April 15, 2023. Image datum: WGS-84.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a moderately well-layered geologic system with resistivities between 1.3 and 5,962 Ohm-m (**Figure 7**). One high-resistivity anomaly is present with a resistivity of 100,000 Ohm-m. Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

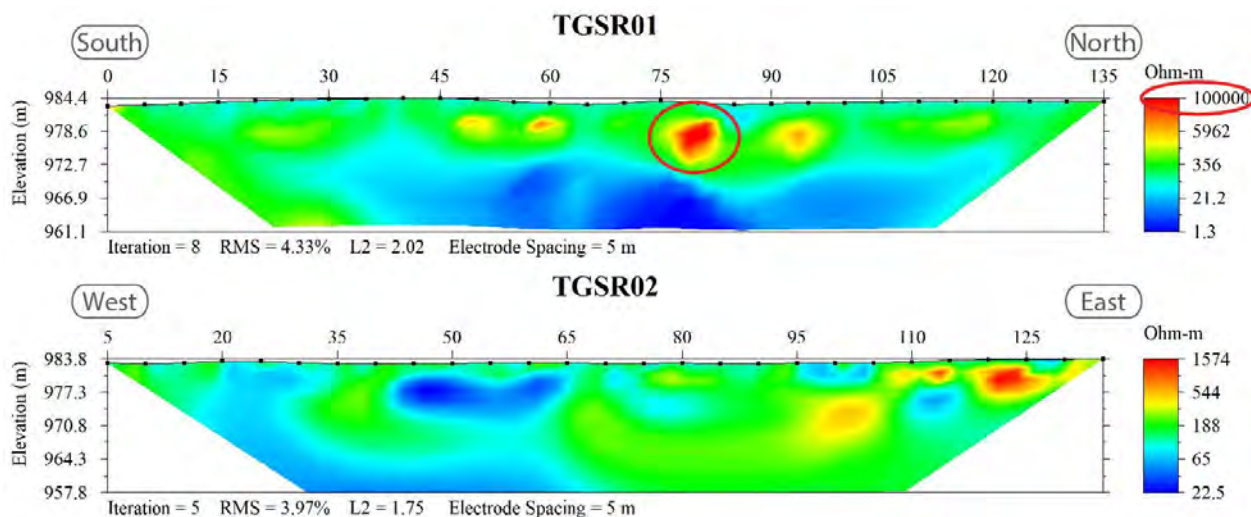


Figure 7: 2D inverted resistivity section. Red ellipse highlights high-resistivity anomaly. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

The geophysical survey contains one high-resistivity anomaly with a value of 100,000 Ohm-m. This anomaly was investigated using air-rotary drilling by Jim Hawley of H & R Enterprises and Dave Decker of Southwest Geophysical Consulting and was found to be conglomerate overlying a layer of clay. **Therefore, no anomalies consistent with air-filled subsurface voids that could pose a collapse risk are interpreted to be under the TGSR geophysical survey area. Additionally, the resistivity data indicates well layered stratigraphy within the zone of the resistivity investigation, indicating stable ground.**

Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as Gatuna Formation conglomerates. Due to their much lower resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**). Very low-resistivity areas between 1.3 – 10 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Data from drilling at the location of the high-resistivity anomaly in **Figure 7** was used to inform these interpretations.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5– 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

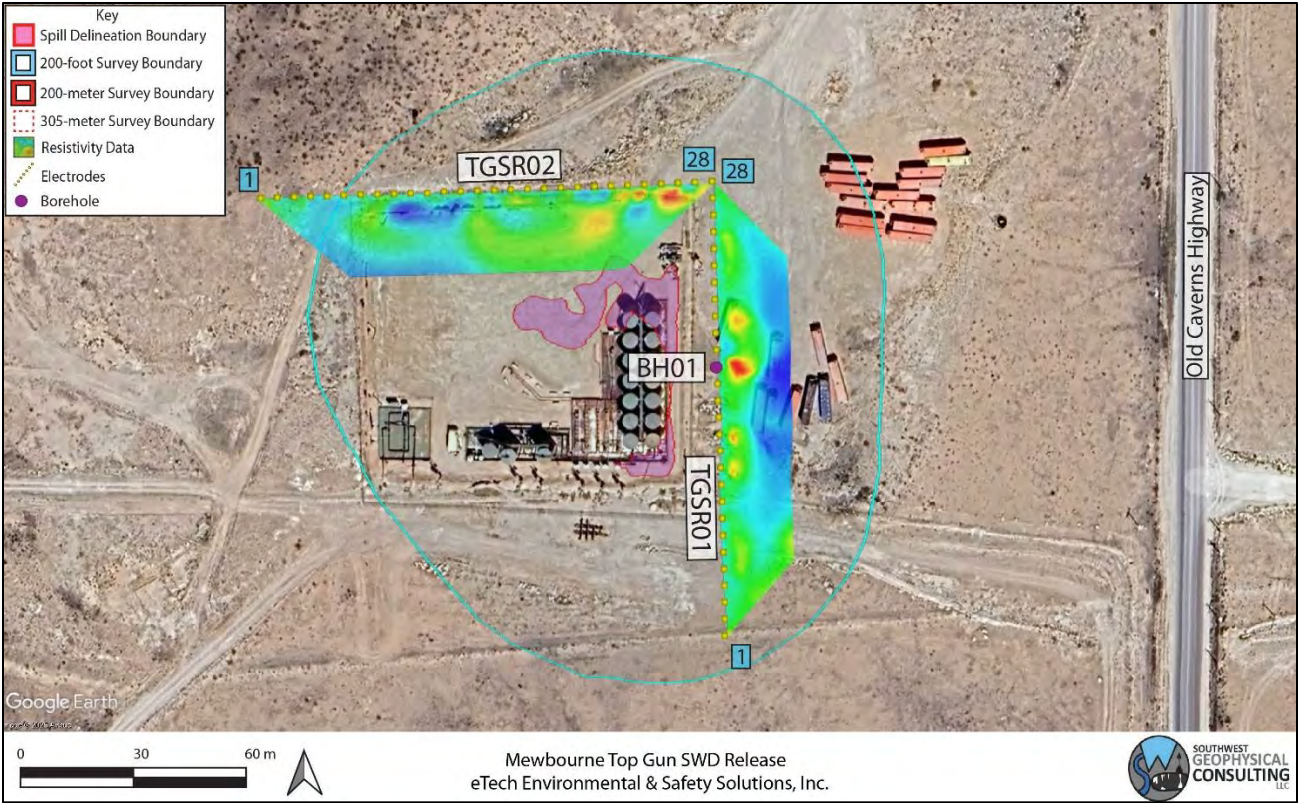


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: April 15, 2023.

5.0 SUMMARY

- **The TGSR survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey line indicating stable ground in the area of the subsurface investigation.**
- A geotechnical survey at the location of the high-resistivity anomaly concluded that no voids were present at that location.
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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- 12 Austin, G. S. *Geology and mineral deposits of Ochoan rocks in Delaware Basin and adjacent areas*. Vol. Circular 159 (New Mexico Bureau of Mines and Mineral Resources, 1978).
- 13 Johnson, K. S. Evaporite Karst in the United States. *Carbonates and Evaporites* **12**, 2-14 (1997).
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- 16 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- 17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the

	field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ETEC-017-20250401 entitled, “Environmental Karst Study Report, Mewbourne Top Gun SWD, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, June 26, 2025.



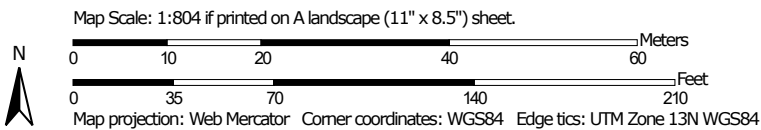
David D. Decker
PhD, CPG-12123



Appendix C

Soil Survey Information


Soil Map—Eddy Area, New Mexico
(Top Gun Federal SWD #001)




Soil Map—Eddy Area, New Mexico
(Top Gun Federal SWD #001)


MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 21, Sep 9, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
UG	Upton gravelly loam, 0 to 9 percent slopes	2.6	100.0%
Totals for Area of Interest		2.6	100.0%

Eddy Area, New Mexico

UG—Upton gravelly loam, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w64
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 96 percent
Minor components: 4 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Upton

Setting

Landform: Fans, ridges
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Map Unit Description: Upton gravelly loam, 0 to 9 percent slopes---Eddy Area, New Mexico

Top Gun Federal SWD #001

Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

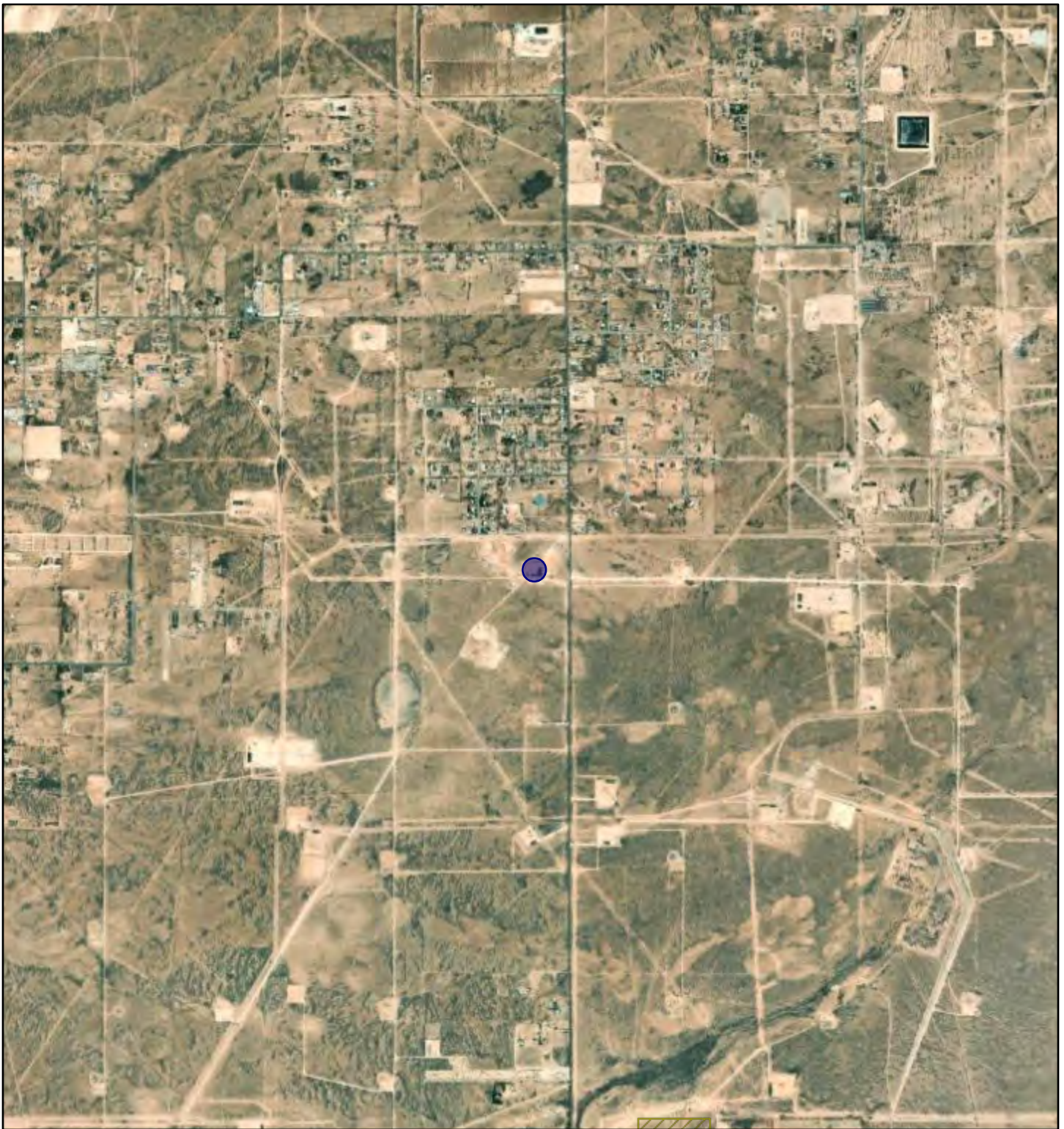
Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 21, Sep 9, 2025

Appendix D


Protected Species & Habitats

Top Gun Federal SWD #001



11/4/2025, 2:52:33 PM

Potential Habitat (Planning Area Only)

 Scheer's beehive cactus

World Imagery

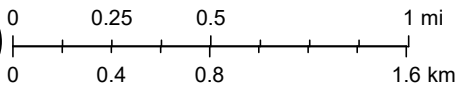
Low Resolution 15m Imagery

High Resolution 60cm Imagery

High Resolution 30cm Imagery

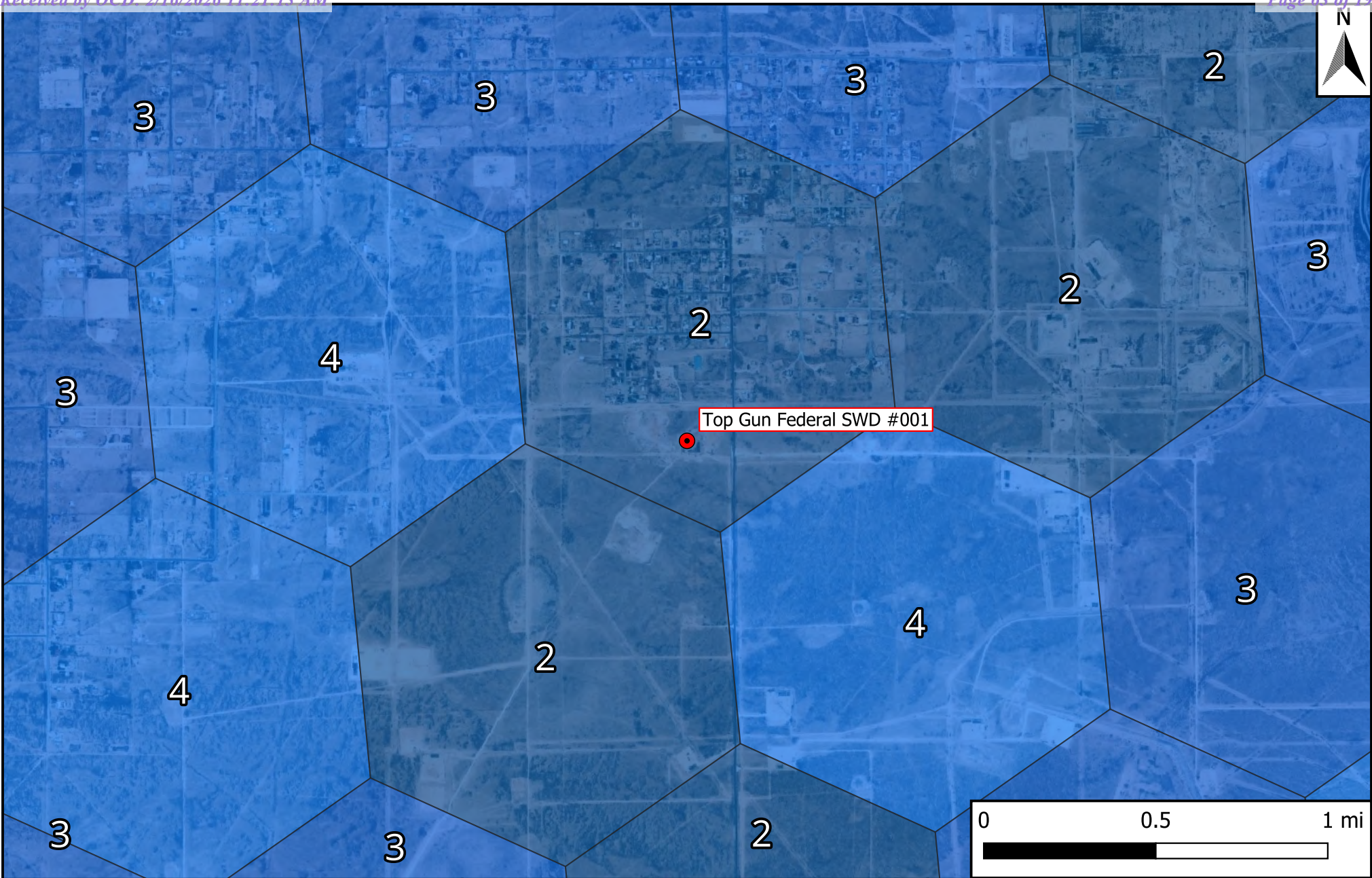
Citations

9.6m Resolution Metadata



1:36,352

Vantor, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Bureau of Land Management - New Mexico State Office



- Legend
- Site Location
 - CHAT Priority Level
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6

Figure 5
New Mexico Crucial Habitat Assessment Tool (CHAT)
 Mewbourne Oil Company
 Top Gun Federal SWD #001
 GPS: 32.310500, -104.222970
 Eddy County, New Mexico



Drafted: bja Checked: rlc Date: 11/4/2025

IPaC

U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Eddy County, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN
Piping Plover <i>Charadrius melodus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened

Clams

NAME	STATUS
Texas Hornshell <i>Popenaias popeii</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/919	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior authorization by the Department of Interior U.S. Fish and Wildlife Service (Service).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Measures for Proactively Minimizing Migratory Bird Impacts

Your IPaC Migratory Bird list showcases [birds of concern](#), including [Birds of Conservation Concern \(BCC\)](#), in your project location. This is not a comprehensive list of all birds found in your project area. However, you can help proactively minimize significant impacts to all birds at your project location by implementing the measures in the [Nationwide avoidance and minimization measures for birds](#) document, and any other project-specific avoidance and minimization measures suggested at the link [Measures for avoiding and minimizing impacts to birds](#) for the birds of concern on your list below.

Ensure Your Migratory Bird List is Accurate and Complete

If your project area is in a poorly surveyed area, your list may not be complete and you may need to rely on other resources to determine what species may be present (e.g. your local FWS field office, state surveys, your own surveys). Please review the [Supplemental Information on Migratory Birds and Eagles document](#), to help you properly interpret the report for your specified location, including determining if there is sufficient data to ensure your list is accurate.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the "Probability of Presence Summary" below to see when these birds are most likely to be present and breeding in your project area.

Review the FAQs

The FAQs below provide important additional information and resources.

NAME	BREEDING SEASON
Long-billed Curlew <i>Numenius americanus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/5511	Breeds elsewhere

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

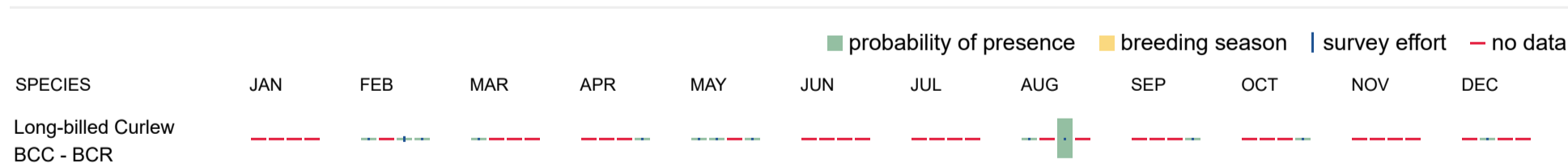
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and

nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

Appendix E

Photographic Log

Photographic Log

Photo Number: 1	 <p>WGS84 ±14ft 32.31041, -104.22284 3234 NE72</p> <p>©1996-2025 Google, All Rights Reserved. Imagery ©2025</p> <p>©1996-2025 Google, All Rights Reserved. Imagery ©2025</p>
Photo Direction: East-Northeast	
Photo Description: View of the affected area.	

Photo Number: 2	 <p>WGS84 ±10ft 32.31061, -104.22242 3237 SW218</p> <p>©1996-2025 Google, All Rights Reserved. Imagery ©2025</p> <p>©1996-2025 Google, All Rights Reserved. Imagery ©2025</p>
Photo Direction: Southwest	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 3	 <p>32.31003, -104.22254 3242 E7B</p> <p>01-Mar-25 09:37:40 MOC Top Gun SWD Carlsbad NM, 88220, United States © 01-Mar-25 09:37:40</p>
Photo Direction: East-Northeast	
Photo Description: View of the affected area.	

Photo Number: 4	 <p>WGS84 32.31000, -104.22231 3242 NW325</p> <p>01-Mar-25 09:39 MOC Top Gun SWD Carlsbad NM, 88220, United States © 01-Mar-25 09:38:27</p>
Photo Direction: Northwest	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 5	 <p>3/18/25, 7:28 AM +32.310842,-104.222442 ±17.01m 143° SE Eddy County</p>
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>3/18/25, 7:28 AM +32.310745,-104.222456 ±7.43m 262° W Eddy County</p>
Photo Direction: West	
Photo Description: View of the excavated area.	

Photographic Log



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

Photo Number: 8	
Photo Direction: South	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log

Photo Number: 9	 <p>3/19/25, 11:30 AM +32.310752,-104.222480 ±4.61m 149° SE Eddy County</p> 
Photo Direction: South-Southeast	
Photo Description: View of the remediated area following backfill and regrading.	

Photo Number: 10	 <p>3/19/25, 11:30 AM +32.310752,-104.222480 ±4.61m 136° SE Eddy County</p> 
Photo Direction: Southeast	
Photo Description: View of the remediated area following backfill and regrading.	

Photographic Log

Photo Number: 11	
Photo Direction: North	
Photo Description: View of the Deferral Area(s)	

Photo Number: 12	
Photo Direction: East	
Photo Description: View of the Deferral Area(s)	

Photographic Log


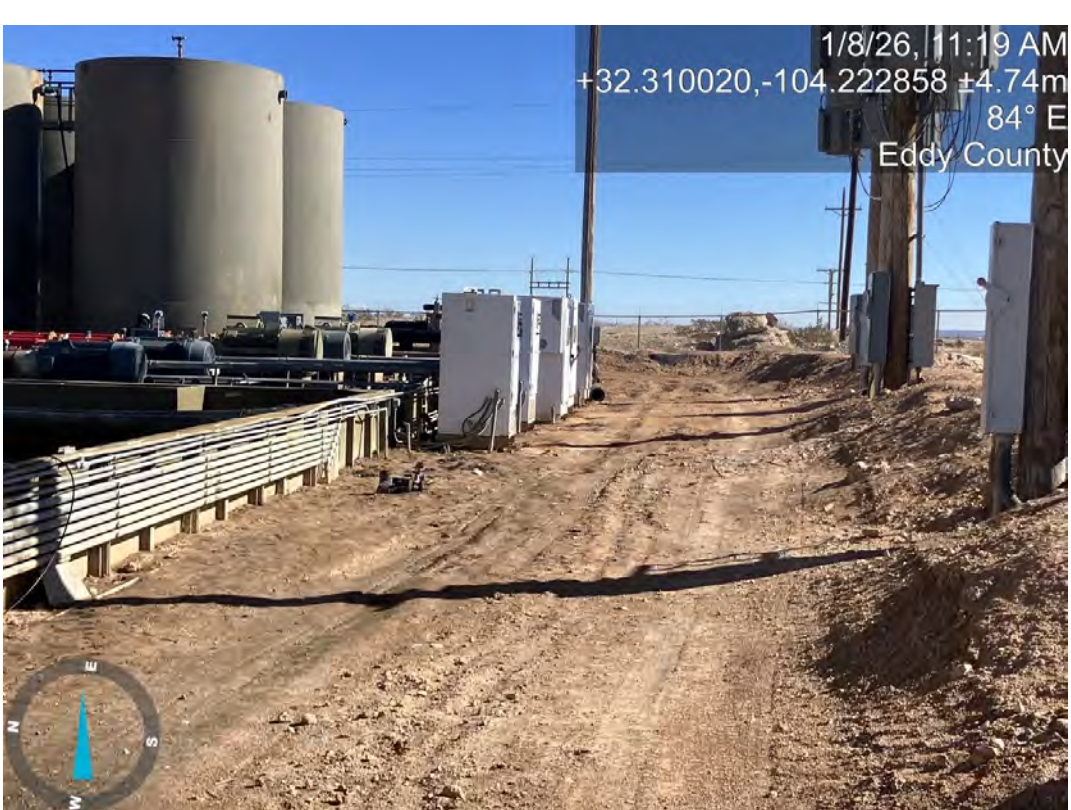
Photo Number: 13	
Photo Direction: South-Southeast	
Photo Description: View of the Deferral Area(s)	

Photo Number: 14	
Photo Direction: East	
Photo Description: View of the Deferral Area(s)	

Photographic Log

Photo Number: 15	 <p>1/8/26, 11:20 AM +32.310027,-104.222385 ±4.74m 276° W Eddy County</p> <p>View of the Deferral Area(s)</p>
Photo Direction: West	
Photo Description:	

Photo Number: 16	 <p>1/8/26, 11:22 AM +32.310404,-104.222355 ±4.74m 163° S Eddy County</p> <p>View of the Deferral Area(s)</p>
Photo Direction: South-Southeast	
Photo Description:	

Appendix F Field Data



Sample Log

Date: _____

Project: Top Gun Federal SWD #001

Project Number: 21962 Latitude: 32.310006 Longitude: -104.223121

Sample ID	PID/Odor	Chloride Conc.	GPS
EH-1		332	
EH-2		196	
EH-3		228	
EH-4		260	
SH-1		456	
DFS-6 @ Surface		26416	
DFS-6 @ 1'		1136	
DFS-6 @ 2'		2044	
DFS-6 @ 3'		2044	
DFS-6 @ 4'		2564	
DFS-6 @ 5'		332	
DFS-5 @ Surface		26416	
DFS-5 @ 1'		1764	
DFS-5 @ 2'		600	
DFS-5 @ 3'		332	
DFS-4 @ Surface		26416	
DFS-4 @ 1'		1416	
DFS-4 @ 2'		1136	
DFS-4 @ 3'		2044	
DFS-4 @ 4'		412	
DFS-3 @ Surface		26416	
DFS-3 @ 1'		2564	
DFS-3 @ 2'		268	
FL-1 @ 1'	-	520	
FL-2 @ 1'	-	520	
FL-3 @ 2'	-	2,100	
FL-3 @ 3'	-	1,972	
FL-3 @ 4'	-	1,896	
FL-3 @ 6'	-	836	
FL-3 @ 7'	-	296	
DFS-2 @ Surface	-	2836	
DFS-2 @ 1'	-	2,836	
DFS-2 @ 2'	-	3600	
DFS-2 @ 3'	-	1,972	
DFS-2 @ 4'	-	1,896	
DFS-2 @ 5'	-	976	

Sample Point = SP #1 @ ## etc
 Floor = FL #1 etc
 Sidewall = SW #1 etc

Test Trench = TT #1 @ ##
 Refusal = SP #1 @ 4'-R
 Soil Intended to be Deferred = SP #1 @ 4' In-Situ

Resamples = SP #1 @ 5b or SW #1b
 Stockpile = Stockpile #1
 GPS Sample Points, Center of Comp Areas



Sample Log

Date: _____

Project: Top Gun Federal SWD #001

Project Number: 21962 Latitude: 32.310006 Longitude: -104.223121

Sample ID	PID/Odor	Chloride Conc.	GPS
DFS-2@6	-	836	
DFS-2@7	-	296	
FL-5@2'	-	228	
FL-6@1'	-	412	
FL-7@3'	-	368	
FL-8@2'	-	332	
FL-9@1'	-	332	
FL-10@1'	-	500	
FL-11@1'	-	368	
FL-12@1'	-	332	
FL-13@2'	-	456	
FL-14@1'	-	412	
FL-15@2'	-	228	
FL-16@2'	-	296	
DFS-1@5@X	-	1056	
DFS-1@1'	-	836	
DFS-1@2'	-	500	
FL-17@1'	-	228	
FL-18@1'	-	332	
FL-19@1'	-	368	
FL-20@1'	-	412	
FL-21@1'	-	228	
FL-22@1'	-	228	
FL-23@1'	-	332	
FL-24@1'	-	368	
FL-25@1'	-	412	
FL-26@1'	-	456	
FL-27@1'	-	228	
FL-28@1'	-	368	
FL-29@1'	-	412	
FL-30@1'	-	264	
FL-32@1'	-	296	
FL-33@1'	-	296	
FL-32@1	-	372	
FL-33@1'	-	264	
FL-34@1'	-	228	

Sample Point = SP #1 @ ## etc

Floor = FL #1 etc

Sidewall = SW #1 etc

Test Trench = TT #1 @ ##

Refusal = SP #1 @ 4'-R

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

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

Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Appendix G

Laboratory Analytical Reports



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

March 17, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 15:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 1 @ 1' (H251536-01)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 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	944	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 2 @ 1' (H251536-02)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 3 @ 7' (H251536-03)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 4 @ 1' (H251536-04)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 5 @ 2' (H251536-05)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 6 @ 1' (H251536-06)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 7 @ 3' (H251536-07)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	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	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 8 @ 2' (H251536-08)

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	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 9 @ 1' (H251536-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 10 @ 1' (H251536-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 11 @ 1' (H251536-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2025	ND	1.91	95.5	2.00	8.87	
Toluene*	<0.050	0.050	03/15/2025	ND	1.98	98.9	2.00	7.62	
Ethylbenzene*	<0.050	0.050	03/15/2025	ND	1.93	96.5	2.00	7.23	
Total Xylenes*	<0.150	0.150	03/15/2025	ND	5.63	93.8	6.00	7.34	
Total BTEX	<0.300	0.300	03/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	205	102	200	1.10	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	195	97.5	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.2 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 12 @ 1' (H251536-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.9 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 13 @ 2' (H251536-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 14 @ 1' (H251536-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.5 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 15 @ 2' (H251536-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 16 @ 2' (H251536-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 17 @ 1' (H251536-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 18 @ 1' (H251536-18)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 19 @ 1' (H251536-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	10.1	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 20 @ 1' (H251536-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 21 @ 1' (H251536-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/17/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: NW 1 (H251536-22)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2025	ND	1.88	94.2	2.00	7.49	
Toluene*	<0.050	0.050	03/14/2025	ND	1.98	99.0	2.00	7.52	
Ethylbenzene*	<0.050	0.050	03/14/2025	ND	2.02	101	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/14/2025	ND	6.21	104	6.00	6.73	
Total BTEX	<0.300	0.300	03/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	200	99.9	200	0.303	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	185	92.5	200	4.93	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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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.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda

BILL TO

ANALYSIS REQUEST

Table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), and analysis results for Chloride, TPH (8015M), and BTEX (8021B).

PLEASE NOTE: Liability and damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 3-14-25 Time: 1548
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [Blank] Yes [Blank] No [Blank] Add'l Phone #: [Blank]
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS: 24 HOUR RUSH
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -11.0 Corrected Temp. °C: -10.7
Sample Condition Cool Intact [Checked] Yes [Blank] No [Blank]
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [Blank] Rush [Checked]
Thermometer ID #140 Correction Factor -0.8°C +0.3°C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, a 'BILL TO' section, an 'ANALYSIS REQUEST' table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and a table for Chloride, TPH, and BTEX analysis results.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form for Relinquished By/Received By, Verbal Result, Remarks, and Delivered By/Corrected Temp. sections.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company and project information, a 'BILL TO' section, an 'ANALYSIS REQUEST' table with columns for Lab I.D., Sample I.D., Matrix, Preserv., and Sampling, and a grid for chemical analysis results (Chloride, TPH, BTEX).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Bottom section of the form containing 'Relinquished By', 'Received By', 'Verbal Result', 'REMARKS', and 'Delivered By' information, including dates, times, and signatures.



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

March 20, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 03/14/25 15:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 1 @ SURF (H251538-01)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	203	102	200	1.89	
DRO >C10-C28*	445	10.0	03/17/2025	ND	204	102	200	7.12	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 1 @ 1' (H251538-02)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 1 @ 2' (H251538-03)

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	03/17/2025	ND	2.06	103	2.00	9.49		
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95		
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 1' (H251538-04)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 2' (H251538-05)

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	03/17/2025	ND	2.06	103	2.00	9.49		
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	03/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95		
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 90.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 3' (H251538-06)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1810	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	360	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	366	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 71.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 4' (H251538-07)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	362	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	380	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 64.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 5' (H251538-08)

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	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	145	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	105	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 6' (H251538-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	45.4	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ 7' (H251538-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	9.49		
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95		
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 145 % 44.4-145

Surrogate: 1-Chlorooctadecane 137 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 3 @ SURF (H251538-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	0.106	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	0.142	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	0.279	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	0.527	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	44800	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.1	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	4130	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	1080	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 143 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 3 @ 1' (H251538-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/17/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 3 @ 2' (H251538-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/18/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 4 @ SURF (H251538-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/18/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 88.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 4 @ 1' (H251538-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	2.06	103	2.00	9.49	
Toluene*	<0.050	0.050	03/18/2025	ND	2.12	106	2.00	9.22	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.15	107	2.00	7.45	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.33	106	6.00	8.01	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.6 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 4 @ 2' (H251538-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.7 % 40.6-153

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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 4 @ 3' (H251538-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/17/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 5 @ SURF (H251538-18)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.160	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	GC-NC1	
Toluene*	1.40	0.050	03/18/2025	ND	2.03	102	2.00	0.732		
Ethylbenzene*	0.402	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806		
Total Xylenes*	8.68	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610		
Total BTEX	10.6	0.300	03/18/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 176 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	79200	16.0	03/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	148	10.0	03/17/2025	ND	194	97.2	200	1.95		
DRO >C10-C28*	1660	10.0	03/17/2025	ND	190	95.1	200	1.95		
EXT DRO >C28-C36	237	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 5 @ 1' (H251538-19)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409		
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610		
Total BTEX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	03/17/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/17/2025	ND	194	97.2	200	1.95		
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95		
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 87.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 5 @ 2' (H251538-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/17/2025	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	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 5 @ 3' (H251538-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/17/2025	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	03/17/2025	ND	194	97.2	200	1.95	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	95.1	200	1.95	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ SURF (H251538-22)

BTEX 8021B		mg/kg		Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.668	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	GC-NC1	
Toluene*	3.98	0.050	03/18/2025	ND	2.03	102	2.00	0.732		
Ethylbenzene*	1.28	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806		
Total Xylenes*	23.0	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610		
Total BTEX	29.0	0.300	03/18/2025	ND					GC-NC1	

Surrogate: 4-Bromofluorobenzene (PID) 225 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	03/17/2025	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*	109	10.0	03/17/2025	ND	209	104	200	1.18		
DRO >C10-C28*	282	10.0	03/17/2025	ND	190	94.9	200	1.16		
EXT DRO >C28-C36	38.8	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ 1' (H251538-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ 2' (H251538-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ 3' (H251538-25)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2510	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ 4' (H251538-26)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3390	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 6 @ 5' (H251538-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: EH 1 (H251538-28)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: EH 2 (H251538-29)

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	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: EH 3 (H251538-30)

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	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: EH 4 (H251538-31)

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	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: SH 1 (H251538-32)

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	03/18/2025	ND	1.96	98.2	2.00	0.409	
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/17/2025	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	03/17/2025	ND	209	104	200	1.18	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	190	94.9	200	1.16	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.3 % 40.6-153

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Analytical Results For:

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

Received:	03/14/2025	Sampling Date:	03/14/2025
Reported:	03/20/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Tamara Oldaker
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: DFS 2 @ SURF (H251538-33)

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	03/18/2025	ND	1.96	98.2	2.00	0.409		
Toluene*	<0.050	0.050	03/18/2025	ND	2.03	102	2.00	0.732		
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	1.98	99.1	2.00	0.806		
Total Xylenes*	<0.150	0.150	03/18/2025	ND	5.78	96.3	6.00	0.610		
Total BTEX	<0.300	0.300	03/18/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25200	16.0	03/17/2025	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	03/17/2025	ND	192	96.0	200	0.729		
DRO >C10-C28*	180	10.0	03/17/2025	ND	186	93.0	200	0.310		
EXT DRO >C28-C36	14.6	10.0	03/17/2025	ND						

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.0 % 40.6-153

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Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME), and ANALYSIS REQUEST (Chloride, TPH (8015M), BTEX (8021B)).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 3-14-25 Time: 15:48
Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: 11.0 Corrected Temp. °C: 10.7
Sample Condition: Cool Intact [] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [X] Rush []
Bacteria (only) Sample Condition: Cool Intact [] Yes [] No Observed Temp. °C: Corrected Temp. °C:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda
BILL TO: P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride TPH (8015M) BTEX (8021B)

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

Relinquished By: [Signature] Date: 3-14-25 Time: 1548 Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #: All Results are emailed. Please provide Email address: pm@etechenv.com
RE:MARKS:
Delivered By: (Circle One) Observed Temp. °C 11.0 Sample Condition Cool Intact CHECKED BY: (Initials) Turnaround Time: Standard Rush
Sampler - UPS - Bus - Other: Corrected Temp. °C -10.7 Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
Correction Factor -0.3°C +0.3°C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Top Gun Federal SWD #001), and a table of analysis requests for Chloride, TPH (8015M), and BTEX (8021B) across various sample locations (DFS 5 @ 3', DFS 6 @ Surf, etc.).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form for Relinquished By, Received By, Verbal Result, and Remarks. Includes fields for Date, Time, and checkboxes for Yes/No. Includes handwritten notes like '3-14-25' and '1548'.



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda
BILL TO: P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: Zip: Phone #: Fax #:
ANALYSIS REQUEST: Chloride, TPH (8015M), BTEX (8021B)

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Relinquished By: [Signature] Date: 3-14-25 Time: 1548
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [X] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechnv.com
REMARKS: * sample # 33 added to C.O.C. per customer. Skodrigney 3-17-25
Delivered By: (Circle One) Observed Temp. °C -11.0 Sample Condition Cool Intact [X] Yes [] No
Corrected Temp. °C -10.7 CHECKED BY: (Initials) 90.
Turnaround Time: Standard [X] Rush [] Bacteria (only) Sample Condition Cool Intact Observed Temp. °C [] Yes [] No [] No [] No Corrected Temp. °C



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

March 18, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 03/17/25 14:53.

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.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 22 @ 1' (H251557-01)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/18/2025	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	03/17/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.6 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 23 @ 1' (H251557-02)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/18/2025	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	03/17/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 24 @ 1' (H251557-03)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/18/2025	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	03/17/2025	ND	219	110	200	0.742	
DRO >C10-C28*	11.7	10.0	03/17/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 25 @ 1' (H251557-04)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/18/2025	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	03/17/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 26 @ 1' (H251557-05)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/18/2025	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	03/17/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/17/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/17/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 27 @ 1' (H251557-06)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 28 @ 1' (H251557-07)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 29 @ 1' (H251557-08)

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	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 30 @ 1' (H251557-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.4 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 31 @ 1' (H251557-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.9 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 32 @ 1' (H251557-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 33 @ 1' (H251557-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.1 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 34 @ 1' (H251557-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.8 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 35 @ 1' (H251557-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.04	102	2.00	10.1	
Toluene*	<0.050	0.050	03/17/2025	ND	2.13	106	2.00	8.90	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	2.29	115	2.00	7.99	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	6.94	116	6.00	8.03	
Total BTEX	<0.300	0.300	03/17/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.7 % 40.6-153

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Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 36 @ 1' (H251557-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	QM-07
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.5 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 37 @ 1' (H251557-16)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 38 @ 1' (H251557-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: NW 2 (H251557-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42		
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45		
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79		
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28		
Total BTEX	<0.300	0.300	03/17/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742		
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910		
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND						

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: EW 1 (H251557-19)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: SW 1 (H251557-20)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/18/2025	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	03/18/2025	ND	219	110	200	0.742	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	214	107	200	0.0910	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/17/2025	Sampling Date:	03/17/2025
Reported:	03/18/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Alyssa Parras
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: WW 1 (H251557-21)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2025	ND	2.03	101	2.00	6.42	
Toluene*	<0.050	0.050	03/17/2025	ND	2.06	103	2.00	4.45	
Ethylbenzene*	<0.050	0.050	03/17/2025	ND	1.98	99.0	2.00	2.79	
Total Xylenes*	<0.150	0.150	03/17/2025	ND	5.77	96.1	6.00	3.28	
Total BTEX	<0.300	0.300	03/17/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	03/18/2025	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	03/18/2025	ND	200	100	200	2.53	
DRO >C10-C28*	<10.0	10.0	03/18/2025	ND	200	99.9	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	03/18/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda

BILL TO
P.O. #:
Company: SEE REMARKS
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST table with columns for Chloride, TPH (8015M), BTEX (8021B) and multiple empty columns for other analytes.

Main data table with columns: Lab I.D., Sample I.D., (G)RAB OR (C)OMP., # CONTAINERS, MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE / COOL, OTHER), SAMPLING (DATE, TIME), and analysis results for Chloride, TPH, and BTEX.

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 3/17/25 Time: 1453
Received By: [Signature]
Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS: 24 HOUR RUSH - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C: -8.5 Corrected Temp. °C: -8.2
Sample Condition: Cool Intact [] Yes [] No
CHECKED BY: [Signature]
Turnaround Time: [] Standard [X] Rush
Bacteria (only) Sample Condition: Cool Intact [] Yes [] No Observed Temp. °C: Corrected Temp. °C:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda
BILL TO ANALYSIS REQUEST
FOR LAB USE ONLY Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS MATRIX PRESERV. SAMPLING
Chloride TPH (8015M) BTEX (8021B)

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Relinquished By: [Signature] Date: 3/17/25 Time: 1453
Received By: [Signature] Date: [Blank] Time: [Blank]
Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS: 24 HOUR RUSH - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C -85.2 Corrected Temp. °C -8.02
Sample Condition Cool Intact [X] Yes [] No [] Yes [] No
CHECKED BY: (Initials) AD
Turnaround Time: 2031725 Standard Rush [X]
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C [] Yes [] No [] Yes [] No Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Etech Environmental & Safety Solutions, Inc.
Project Manager: Lance Crenshaw
Address: 2617 West Marland
City: Hobbs State: NM Zip: 88240
Phone #: (575) 264-9884 Fax #:
Project #: 21962 Project Owner: Mewbourne
Project Name: Top Gun Federal SWD #001
Project Location: 32.310006, -104.223121
Sampler Name: Martin Sepulveda
BILL TO ANALYSIS REQUEST
Lab I.D. Sample I.D. MATRIX PRESERV. SAMPLING
(Grab or C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME
Chloride TPH (8015M) BTEX (8021B)

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Relinquished By: [Signature] Date: 3/17/25 Time: 1453
Received By: [Signature] Verbal Result: [] Yes [] No Add'l Phone #:
All Results are emailed. Please provide Email address: pm@etechenv.com
REMARKS: 24 HOUR RUSH - Bill analytical to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw.
Delivered By: (Circle One) Observed Temp. °C -85 Corrected Temp. °C -82
Sample Condition Cool Intact [] Yes [] No [] Yes [] No
CHECKED BY: (Initials) [Signature]
Turnaround Time: Standard [] Rush [X]
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C [] Yes [] No [] Yes [] No Corrected Temp. °C



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

March 19, 2025

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: TOP GUN FEDERAL SWD #001

Enclosed are the results of analyses for samples received by the laboratory on 03/18/25 12:06.

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:

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

Received:	03/18/2025	Sampling Date:	03/18/2025
Reported:	03/19/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 1 @ 2' (H251587-01)

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	03/18/2025	ND	2.04	102	2.00	3.49	
Toluene*	<0.050	0.050	03/18/2025	ND	2.09	105	2.00	3.21	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.08	104	2.00	3.59	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.11	102	6.00	3.95	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/19/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/19/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 72.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 68.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/18/2025	Sampling Date:	03/18/2025
Reported:	03/19/2025	Sampling Type:	Soil
Project Name:	TOP GUN FEDERAL SWD #001	Sampling Condition:	Cool & Intact
Project Number:	21962	Sample Received By:	Shalyn Rodriguez
Project Location:	MEWBOURNE 32.310006-104.223121		

Sample ID: FL 2 @ 2' (H251587-02)

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	03/18/2025	ND	2.04	102	2.00	3.49	
Toluene*	<0.050	0.050	03/18/2025	ND	2.09	105	2.00	3.21	
Ethylbenzene*	<0.050	0.050	03/18/2025	ND	2.08	104	2.00	3.59	
Total Xylenes*	<0.150	0.150	03/18/2025	ND	6.11	102	6.00	3.95	
Total BTEX	<0.300	0.300	03/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/19/2025	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	03/19/2025	ND	222	111	200	1.42	
DRO >C10-C28*	<10.0	10.0	03/19/2025	ND	214	107	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	03/19/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service.

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Form containing company information (Etech Environmental & Safety Solutions, Inc.), project details (Top Gun Federal SWD #001), and a table for analysis results with columns for Lab I.D., Sample I.D., Matrix, Preserv., and various analytes (Chloride, TPH, BTEX).

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses.

Form for Relinquished/Received By, Date, Time, Verbal Result, Remarks, and Sample Condition details.

Appendix H

Regulatory Correspondence

From: OCDOnline@state.nm.us
Sent: Tuesday, March 11, 2025 8:33 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 441483

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#) nAPP2507060025.

The sampling event is expected to take place:

When: 03/14/2025 @ 07:00

Where: A-18-23S-27E 0 FNL 0 FEL (32.3105,-104.22297)

Additional Information: Jeff Broom, 806.202.8358

Additional Instructions: From the intersection of Chuckwagon Rd and Old Cavern Hwy (32.315044, -104.220715), head S on Old Cavern Hwy for 0.21 mi, then W for 0.03 mi, then SW for 0.13 mi to arrive at the Top Gun Federal SWD #1 release area (32.310413, -104.222477).

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: Tuesday, March 11, 2025 8:36 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 441486

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#) nAPP2507060025.

The sampling event is expected to take place:

When: 03/17/2025 @ 07:00

Where: A-18-23S-27E 0 FNL 0 FEL (32.3105,-104.22297)

Additional Information: Jeff Broom, 806.202.8358

Additional Instructions: From the intersection of Chuckwagon Rd and Old Cavern Hwy (32.315044, -104.220715), head S on Old Cavern Hwy for 0.21 mi, then W for 0.03 mi, then SW for 0.13 mi to arrive at the Top Gun Federal SWD #1 release area (32.310413, -104.222477).

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: Tuesday, March 11, 2025 8:38 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 441488

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#) nAPP2507060025.

The sampling event is expected to take place:

When: 03/18/2025 @ 07:00

Where: A-18-23S-27E 0 FNL 0 FEL (32.3105,-104.22297)

Additional Information: Jeff Broom, 806.202.8358

Additional Instructions: From the intersection of Chuckwagon Rd and Old Cavern Hwy (32.315044, -104.220715), head S on Old Cavern Hwy for 0.21 mi, then W for 0.03 mi, then SW for 0.13 mi to arrive at the Top Gun Federal SWD #1 release area (32.310413, -104.222477).

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: Tuesday, March 11, 2025 8:41 PM
To: Jeff Broom
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 441489

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#) nAPP2507060025.

The sampling event is expected to take place:

When: 03/19/2025 @ 07:00

Where: A-18-23S-27E 0 FNL 0 FEL (32.3105,-104.22297)

Additional Information: Jeff Broom, 806.202.8358

Additional Instructions: From the intersection of Chuckwagon Rd and Old Cavern Hwy (32.315044, -104.220715), head S on Old Cavern Hwy for 0.21 mi, then W for 0.03 mi, then SW for 0.13 mi to arrive at the Top Gun Federal SWD #1 release area (32.310413, -104.222477).

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: [Jeff Broom](#)
To: eco@nmslo.gov; [Lance Crenshaw](#); [Ben Arguijo](#)
Cc: [Connor Walker](#)
Subject: (Sampling Notification) Mewbourne Oil Company-Top Gun Fed SWD #1 (nAPP2507060025)-02/28/2025
Date: Tuesday, March 11, 2025 9:01:50 PM

All,

Mewbourne Oil Company has contracted ETech Environmental for environmental services for the Top Gun Fed SWD #1 release.

Please see sampling information below:

Project: Top Gun Federal SWD (nAPP2507060025)

Square Footage: 4,900 sq. ft.

Number of confirmation samples: 25

Sample Technician: Jeff Broom, 806.202.8358

Sample Dates: 3/14, 3/17, 3/18, 3/19

Driving Directions: From the intersection of Chuckwagon Rd and Old Cavern Hwy (32.315044, -104.220715), head S on Old Cavern Hwy for 0.21 mi, then W for 0.03 mi, then SW for 0.13 mi to arrive at the Top Gun Federal SWD #1 release area (32.310413, -104.222477).

If additional information is needed, please contact us as your earliest convenience.

Thanks,

Jeff Broom

Mewbourne Oil Company
4801 Business Park Blvd.,
Hobbs, NM 88240
Office: 575.393.5905 ext. 5009
Mobile: 806.202.8358
Email: jbroom@mewbourne.com

From: [Velez, Nelson, EMNRD](#)
To: [Ben Arguijo](#)
Cc: [Lance Crenshaw](#); [Connor Walker](#); [Jeff Broom](#); crosendo@mewbourne.com; [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: Re: [EXTERNAL] Extension Request - nAPP2507060025 - Top Gun Fed SWD #1
Date: Friday, May 23, 2025 3:23:33 PM
Attachments: [image001.png](#)
[Outlook-z11f3pn.png](#)

Good afternoon Ben,

Thank you for the correspondence. After discussing the incident with you over the telephone, your 90-day time extension is approved. Remediation Due date has been updated to August 27, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, May 21, 2025 4:27 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - nAPP2507060025 - Top Gun Fed SWD #1

From: Ben Arguijo <bena@etechenv.com>
Sent: Wednesday, May 21, 2025 3:07 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Lance Crenshaw <lance@etechenv.com>; Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Cesar Rosendo <crosendo@mewbourne.com>
Subject: [EXTERNAL] Extension Request - nAPP2507060025 - Top Gun Fed SWD #1

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

Dear NMOCD Environmental Bureau,

Mewbourne Oil Company has recently contracted Etech Environmental & Safety Solutions, Inc. (Etech), to conduct remediation activities at the release site known as the Top Gun Fed SWD #1 (NMOCD Incident #nAPP2507060025), located in Eddy County. Per NMOCD regulations, a work plan or closure report for the release is due by May 29, 2025.

The release has been remediated to the extent practicable. Affected areas abutting permanent on-site production structures/equipment and/or not requiring major facility deconstruction have been remediated to the strictest Closure Criteria of 600 mg/kg chloride and 100 mg/kg TPH. However, since the release site is located in an area that is classified by the Bureau of Land Management as having a high potential for karst occurrence, a geophysical survey was required to determine if karst features or other indications of unstable ground are present. The results of the survey are still pending. As such, Etech, on behalf of Mewbourne Oil Company, respectfully requests an extension of the due date.

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

Thank you for your time and consideration.

Respectfully,
Ben J. Arguijo

Ben J. Arguijo
Project Manager



6309 Indiana Ave., Ste. D
Lubbock, TX 79413
(432) 813-1592

From: OCDOnline@emnrd.nm.gov <OCDOnline@emnrd.nm.gov>
Sent: Thursday, January 8, 2026 9:28 AM
To: Jeff Broom <jbroom@mewbourne.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 525364

To whom it may concern (c/o Jeff Broom 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#) nAPP2507060025, for the following reasons:

- **Remediation closure report is denied for the following reasons; 1. This application has been rejected because the C-141 is incomplete. The submitted application indicates a conflict between the questions answered and the attachments that have been submitted. For example the answer Yes was selected when requesting a remediation closure report approval; however, your attachments indicate that your intent is to request a deferral report approval.**
- **2. Horizontal delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved background values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved background values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation. 3. Must provide photo documentation of those areas being deferred.**
- **4. Mewbourne has 60-days (March 9, 2026) to submit to OCD its appropriate or final remediation closure report.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 525364.

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,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

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

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

Action 554287

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507060025
Incident Name	NAPP2507060025 TOP GUN FED SWD #1 @ 30-015-31075
Incident Type	Produced Water Release
Incident Status	Deferral Request Received
Incident Well	[30-015-31075] TOP GUN FEDERAL SWD #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	TOP GUN FED SWD #1
Date Release Discovered	02/28/2025
Surface Owner	State

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

Nature and Volume of Release	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error Production Tank Produced Water Released: 31 BBL Recovered: 15 BBL Lost: 16 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.

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 2

Action 554287

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
<i>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.</i>	

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	<i>Not answered.</i>

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: 02/16/2026
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Sante Fe Main Office
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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, Page 3

Action 554287

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 500 and 1000 (ft.)
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 ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

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

Requesting a remediation plan approval with this submission	Yes
<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)	79200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5230
GRO+DRO (EPA SW-846 Method 8015M)	4150
BTEX (EPA SW-846 Method 8021B or 8260B)	148
Benzene (EPA SW-846 Method 8021B or 8260B)	29

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

On what estimated date will the remediation commence	03/06/2025
On what date will (or did) the final sampling or liner inspection occur	03/18/2025
On what date will (or was) the remediation complete(d)	03/19/2025
What is the estimated surface area (in square feet) that will be reclaimed	3337
What is the estimated volume (in cubic yards) that will be reclaimed	494
What is the estimated surface area (in square feet) that will be remediated	6855
What is the estimated volume (in cubic yards) that will be remediated	392

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 554287

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Yes
In which state is the disposal taking place	Texas
What is the name of the out-of-state facility	R360 Red Bluff Facility
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	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

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

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

I hereby agree and sign off to the above statement	Name: Jeff Broom Title: Environmental Rep Email: jbbroom@mewbourne.com Date: 02/16/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 554287

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Holding tanks, below ground electrical line, below ground flow lines, and liner under the facility.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3337
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	494
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	fAPP2125142480 TOP GUN FED SWD #1 BATTERY
Enter the well API (30-) on which this deferral should be granted	30-015-31075 TOP GUN FEDERAL SWD #001
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<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: jbroom@mewbourne.com Date: 02/16/2026

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QUESTIONS, Page 6

Action 554287

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	441489
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/19/2025
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	4900

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	No

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CONDITIONS

Action 554287

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88240	OGRID: 14744
	Action Number: 554287
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has been plugged and abandoned or a major facility deconstruction takes place.	3/24/2026