

Remediation Summary & Soil Closure Request


Mewbourne Oil Company Desert Eagle 1/2 Fed Com #521H

Eddy County, New Mexico
Unit Letter "H", Section 1, Township 20 South, Range 28 East
Latitude 32.605770 North, Longitude 104.123187 West
NMOCD Reference No. nAPP2410855489

Prepared By:

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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Mewbourne Oil Company, has prepared this *Remediation Summary & Soil Closure Request* for the release site known as the Desert Eagle 1/2 Fed Com #521H (henceforth, "Desert Eagle"). Details of the release are summarized below:

Location of Release Source

Latitude: 32.605770 Longitude: -104.123187

Provided GPS are in WGS84 format.

Site Name: Desert Eagle 1/2 Fed Com #521H	Site Type: Tank Battery
Date Release Discovered: 4/9/2024	API # (if applicable): 30-015-53905

Unit Letter	Section	Township	Range	County
"H"	1	20S	28E	Eddy

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

Nature and Volume of Release

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/L?	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Other (describe) Drilling Mud/Fluid	Volume/Weight Released (bbls) 95	Volume/Weight Recovered (bbls) 75

Cause of Release:

Human error. A tank was overrun during fluid transfer operations.

Initial Response

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

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

2.0 SITE CHARACTERIZATION

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (bgs)?	Between 51 and 75 (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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution or church?	> 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Between 1,000 (ft.) and ½ (mi.)
Any other fresh water well or spring?	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field?	Greater than 5 (mi.)
A wetland?	Between 1 and 5 (mi.)
A subsurface mine?	Between 1 and 5 (mi.)
A (non-karst) unstable area?	Between 1 and 5 (mi.)
Categorize the risk of this well/site being in a karst geology.	High
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 Desert Eagle release site. Probable groundwater depth was determined using data generated by numeric models based on available water well data and published information. Depth to groundwater information is provided in Appendix A.

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

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

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

Probable Depth to Groundwater	Constituent	Laboratory Analytical Method	Closure Criteria**†	Reclamation Standard*‡
Between 51 and 75 (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 of the New Mexico Administrative Code (NMAC).

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

4.0 REMEDIATION ACTIVITIES SUMMARY

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?	5/20/2024	
On what date will (or did) the final sampling or liner inspection occur?	5/31/2024	
On what date will (or was) the remediation complete(d)?	6/11/2024	
What is the total surface area (sq. ft.) in need of or that will <i>eventually</i> be reclaimed?	10,576	
What is the total volume (cy) in need of or that will <i>eventually</i> be reclaimed?	344	
What was the total surface area (sq. ft.) that has or will be remediated?	10,576	
What was the total volume (cy) that has or will be remediated?	280	
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 Halfway Facility	
NMOCD Disposal Facility ID?	fEEM0112334510	
Summarize any additional remediation activities not included by answers above.	See below	

On May 20, 2024, Etech commenced remediation activities at the Desert Eagle release site. In accordance with NMOCD regulatory guidelines, impacted soil affected above the NMOCD Closure Criteria and NMOCD Reclamation Standards was excavated and stockpiled on-site, pending transfer to an NMOCD-permitted surface waste facility for disposal. 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 sidewalls and floor of the excavation were advanced until field tests and field observations suggested that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and/or NMOCD Reclamation Standards. Representative five-point composite confirmation soil samples were collected every 200 square feet from the sidewalls and floor of the excavated area to be submitted for laboratory analysis. A summary of soil sampling events is provided below:

Constituent	Highest Observable Concentration	Sample ID	Sample Date	Sample Depth (ft bgs)	Soil Status
Chloride	416	FL 36 @ 0.5'	5/22/2024	0.5	Excavated
TPH	492	FL 44 @ 0.5'	5/22/2024	0.5	Excavated
GRO+DRO	492	FL 44 @ 0.5'	5/22/2024	0.5	Excavated
BTEX	<0.300	All submitted samples	5/21 - 5/31/2024	0 - 1	In-Situ & Excavated
Benzene	<0.050	All submitted samples	5/21 - 5/31/2024	0 - 1	In-Situ & Excavated

Please reference Table 1 for additional information.

On May 21, 2024, Etech collected 38 confirmation soil samples (FL 1 @ 1' through FL 35 @ 1', NW 1, EW 1, and WW 1) from the floor and sidewalls of the excavated area. The soil samples were submitted to a certified, commercial laboratory (henceforth, "the laboratory") for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX, TPH, and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

On May 22, 2024, Etech collected 16 confirmation soil samples (FL 36 @ 0.5' through FL 50 @ 0.5' and SW 1) from the floor and sidewalls of the excavated area. The soil samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated that BTEX and chloride concentrations were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples, as were the TPH concentrations in soil samples FL 41 @ 0.5', FL 42 @ 0.5', FL 43 @ 0.5', FL 46 @ 0.5', FL 47 @ 0.5', FL 49 @ 0.5', and FL 50 @ 0.5'. However, the TPH concentrations in soil samples FL 36 @ 0.5' through FL 40 @ 0.5', FL 44 @ 0.5', FL 45 @ 0.5', FL 48 @ 0.5', and SW 1 exceeded the NMOCD Closure Criterion. Based on these laboratory analytical results, the excavation was subsequently further advanced in the areas characterized by soil samples FL 36 @ 0.5' through FL 40 @ 0.5', FL 44 @ 0.5', FL 45 @ 0.5', FL 48 @ 0.5', and SW 1.

On May 31, 2024, Etech collected nine (9) confirmation soil samples (FL 36 @ 0.67' through FL 40 @ 0.67', FL 44 @ 0.67', FL 45 @ 0.67', FL 48 @ 0.67', and SW 1) from the floor and sidewalls of the excavated area. 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 NMOCD Closure Criteria and NMOCD Reclamation Standards in each of the submitted soil samples.

The final dimensions of the excavated area were approximately 150 feet in length, 24 to 100 feet in width, and six (6) inches to one (1) foot in depth. During the course of remediation activities, Etech transported approximately 280 cubic yards of impacted soil to an NMOCD-permitted surface waste facility for disposal and imported approximately 280 cubic yards of locally sourced, non-impacted material to the site for use as backfill.

Soil sample locations and the extent of the excavated area are depicted in Figure 3, "Sample Location Map". Soil chemistry data is summarized in Table 1. Field data is provided in Appendix B. General photographs of the site are provided in Appendix C. Laboratory analytical reports are provided in Appendix D. Copies of all regulatory correspondence are provided in Appendix E.

5.0 SOIL CLOSURE REQUEST

Requesting a deferral of remediation closure due date with the approval of this submission?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Requesting a remediation closure approval with this submission?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Have the lateral and vertical extents of contamination been fully delineated?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Was this release entirely contained within a lined containment area?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the site's existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
What was the total surface area (sq. ft.) remediated?	10,576	
What was the total volume (cy) remediated?	280	

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

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

6.0 RESTORATION, RECLAMATION & RE-VEGETATION PLAN

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

On May 22, 2024, in accordance with NMOCD requirements, a 5-point composite soil sample (Lea Land Backfill) was collected from the imported material stockpiled on-site to be utilized as backfill. The soil sample was submitted to the laboratory for analysis of BTEX, TPH, and chloride concentrations. Laboratory analytical results indicated that the BTEX, TPH, and chloride concentrations in the soil sample were below the applicable NMOCD Closure Criteria and NMOCD Reclamation Standards and confirmed that the material was acceptable for use as backfill.

On June 11, 2024, upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. The affected areas were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

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

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

8.0 DISTRIBUTION

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

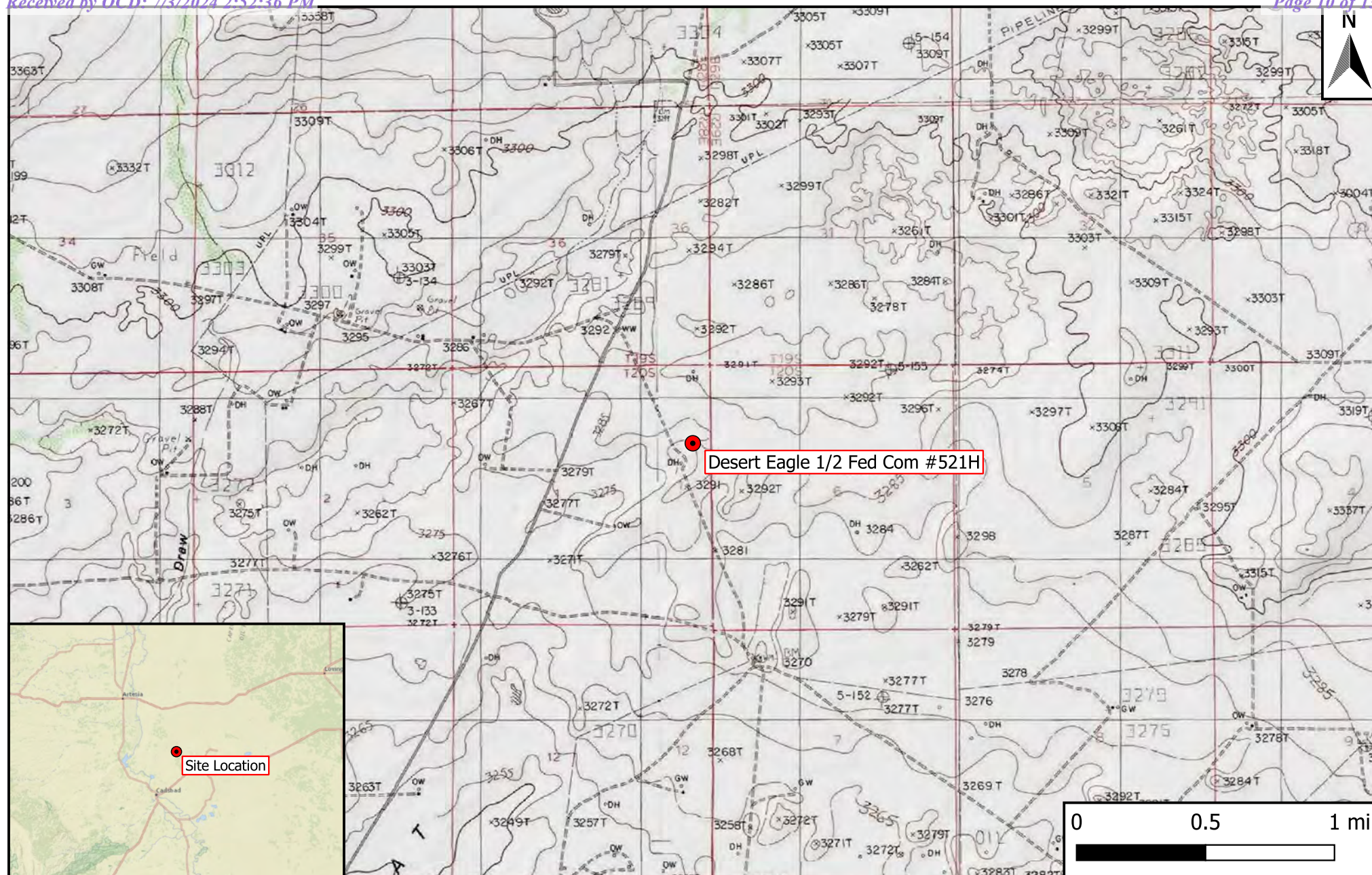
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210

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

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1
 Site Location Map
 Mewbourne Oil Company
 Desert Eagle 1/2 Fed Com #521H
 GPS: 32.605770, -104.123187
 Eddy County, New Mexico



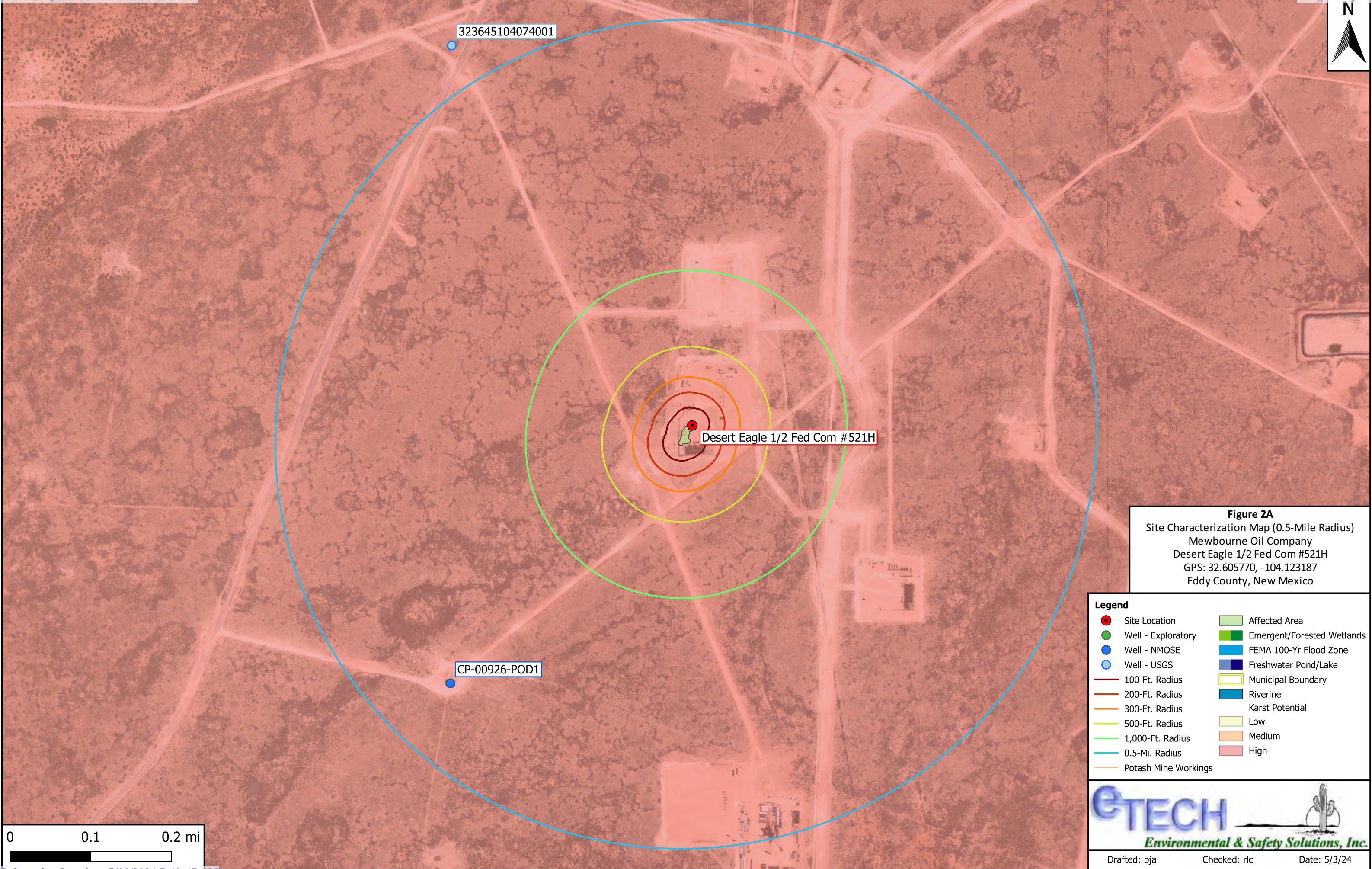
Drafted: bja

Checked: rlc

Date: 5/3/24

Figures 2A & 2B

Site Characterization Maps



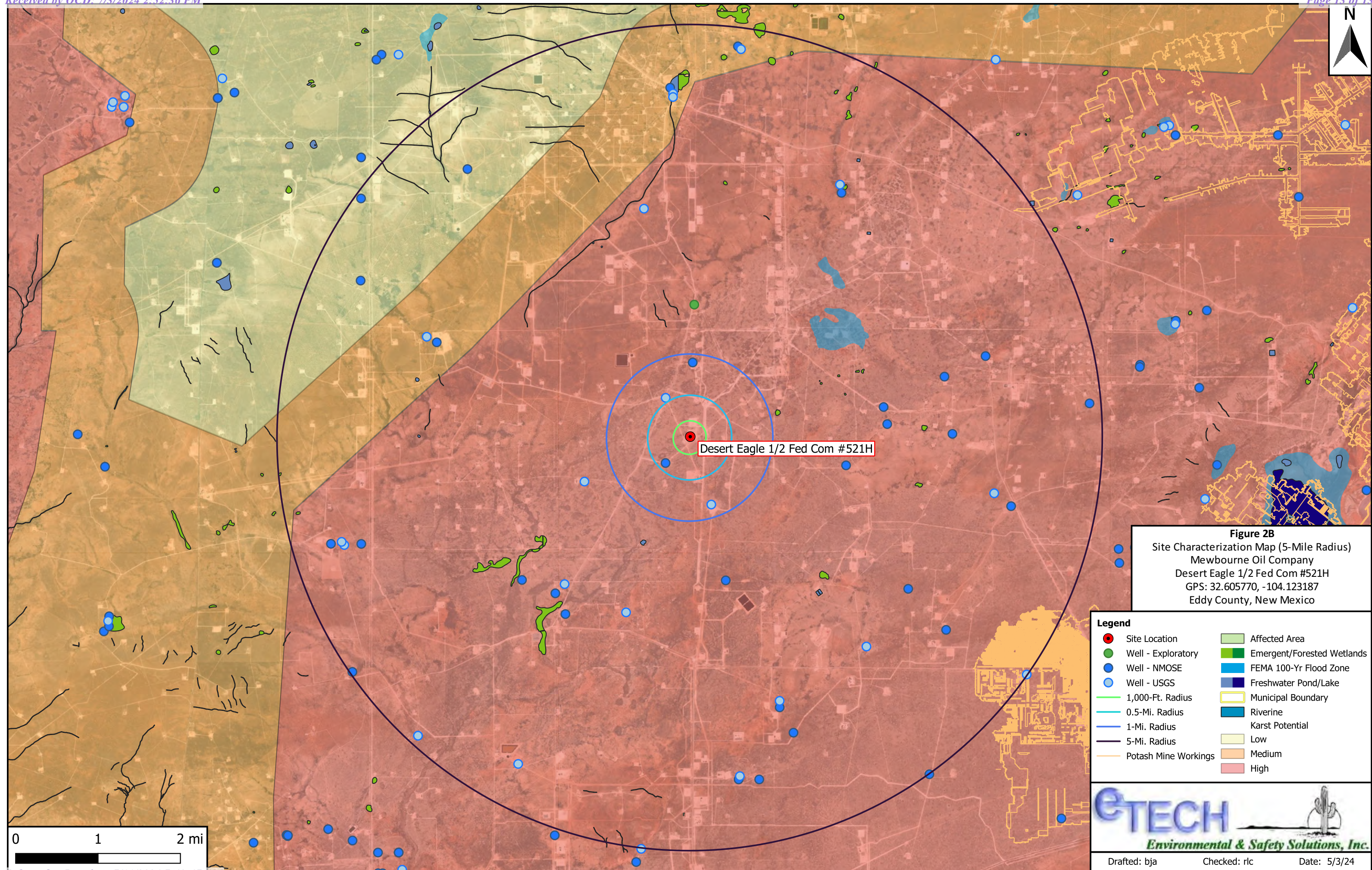
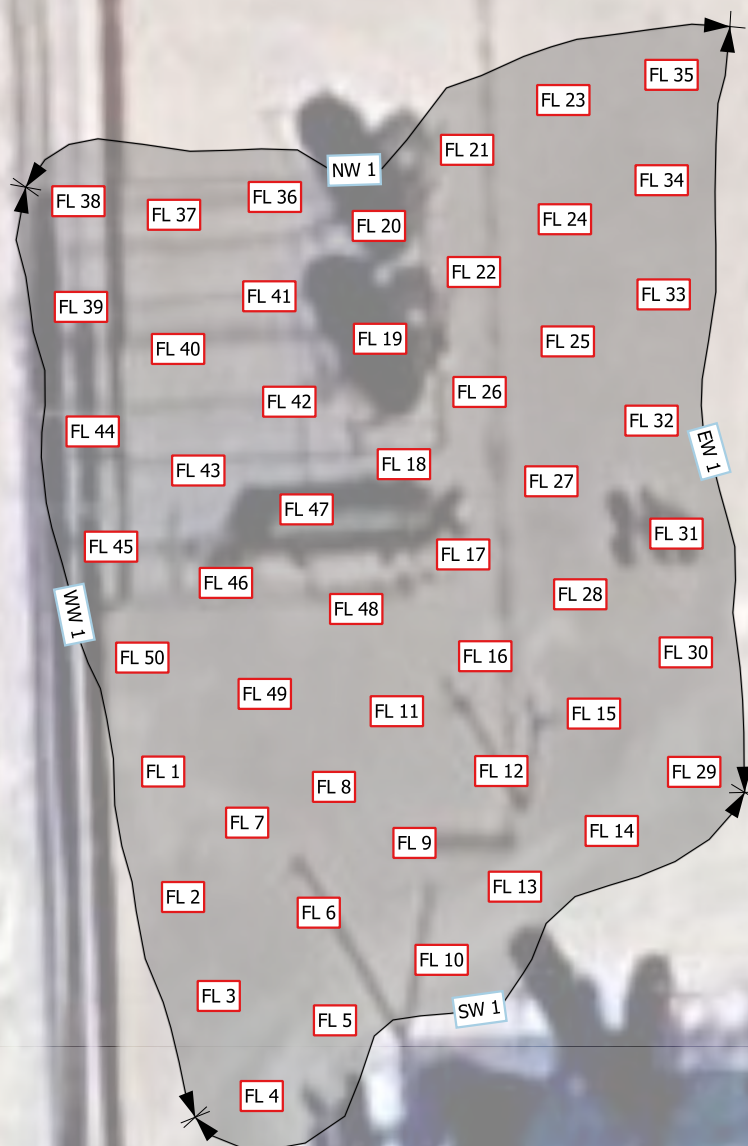


Figure 3

Sample Location Map



Legend




-  Excavation Extent (10,576 ft²)
-  Composite Floor Sample
-  Composite Wall Sample

Figure 3

Sample Location Map
 Mewbourne Oil Company
 Desert Eagle 1/2 Fed Com #521H
 GPS: 32.605770, -104.123187
 Eddy County, New Mexico



Created: bja

Checked: rlc

Date: 7/3/24

Table 1
Concentrations of BTEX, TPH & Chloride in Soil

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Desert Eagle 1/2 Fed Com #521H NMOCD Ref. #: nAPP2410855489											
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)
FL 1 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 2 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 3 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 4 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 5 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	368
FL 6 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 7 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 8 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	288
FL 9 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 10 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 11 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 12 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 13 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 14 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 15 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 16 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 17 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 18 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 19 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 20 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
FL 21 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 22 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 23 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 24 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
FL 25 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	34.5	34.5	<10.0	34.5	160
FL 26 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	80.4	80.4	<10.0	80.4	160
FL 27 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 28 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 29 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 30 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 31 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 32 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 33 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 34 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 35 @ 1'	5/21/2024	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 36 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	320	320	<10.0	320	416
FL 36 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
FL 37 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	364	364	<10.0	364	288
FL 37 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL 38 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	359	359	<10.0	359	256
FL 38 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL 39 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	376	376	<10.0	376	352
FL 39 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
FL 40 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	269	269	<10.0	269	256
FL 40 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160

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

Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Table 1 Concentrations of BTEX, TPH & Chloride in Soil Mewbourne Oil Company Desert Eagle 1/2 Fed Com #521H NMOCD Ref. #: nAPP2410855489											
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)
FL 41 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	10.5	10.5	<10.0	10.5	352
FL 42 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 43 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL 44 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	492	492	<10.0	492	160
FL 44 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL 45 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	101	101	<10.0	101	176
FL 45 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL 46 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 47 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL 48 @ 0.5'	5/22/2024	0.5	Excavated	<0.050	<0.300	<10.0	191	191	<10.0	191	272
FL 48 @ 0.67'	5/31/2024	0.67	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL 49 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	97.5	97.5	<10.0	97.5	160
FL 50 @ 0.5'	5/22/2024	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
NW 1	5/21/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
EW 1	5/21/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW 1	5/22/2024	0-1	Excavated	<0.050	<0.300	<10.0	439	439	<10.0	439	160
SW 1	5/31/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
WW 1	5/21/2024	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	192
Lea Land Backfill	5/22/2024	N/A	Backfill	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0

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

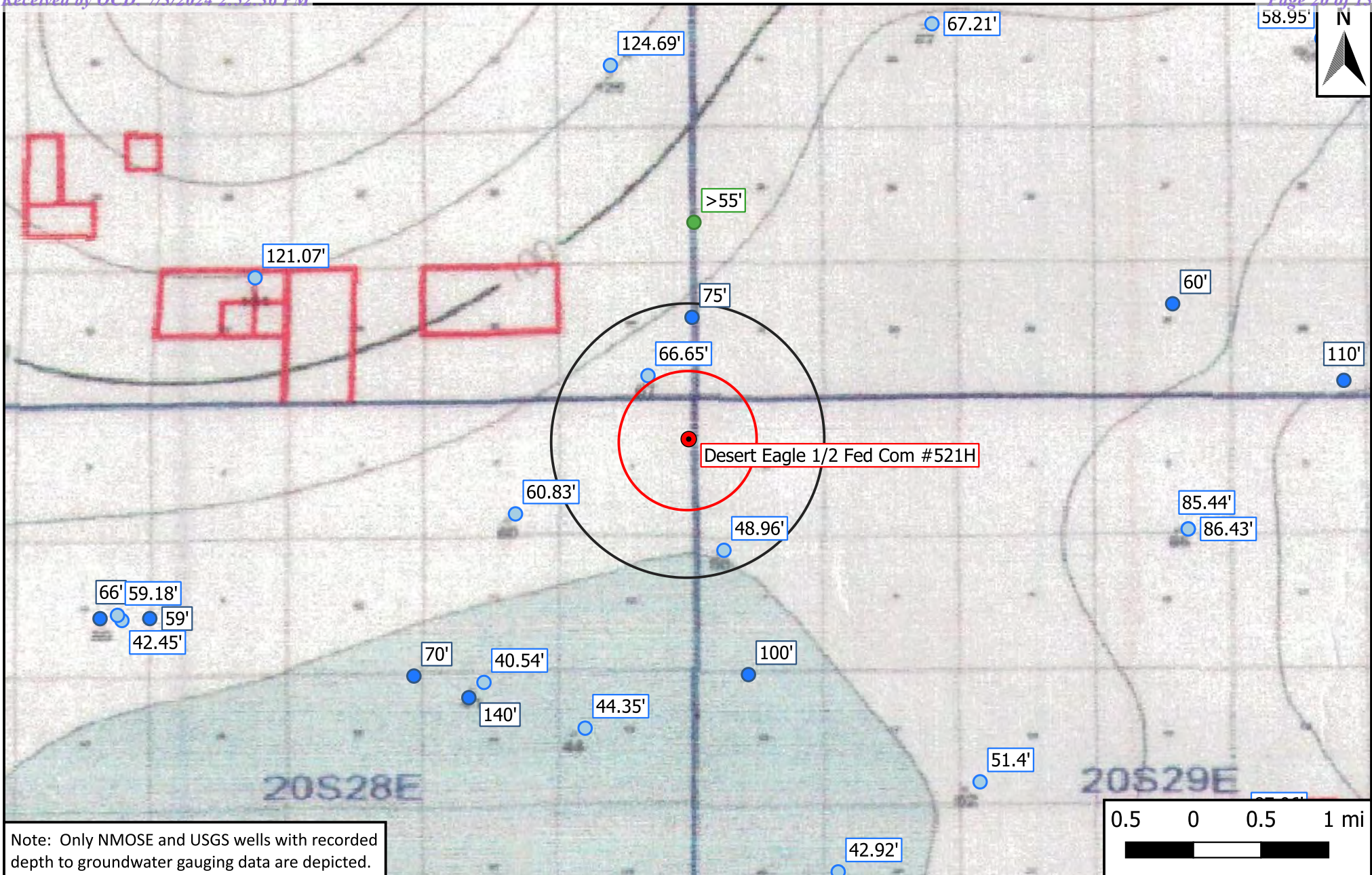
Bold: NMOCD Closure Criteria exceedance.

Red: NMOCD Reclamation Standard exceedance.

Red Border with Shading: Highest observed concentration.

Appendix A

Depth to Groundwater Information



Legend

- Site Location
- Well - Exploratory
- Well - NMOSE
- Well - USGS
- 0.5-Mile Radius
- 1-Mile Radius

Figure 4

Inferred Depth to Groundwater Map
 Mewbourne Oil Company
 Desert Eagle 1/2 Fed Com #521H
 GPS: 32.605770, -104.123187
 Eddy County, New Mexico



Drafted: bja

Checked: rlc

Date: 5/3/24



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 1	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00926 POD1		CP	LE	2	1	4	01	20S	28E	581793	3607405	705	300		
CP 01231 POD1		CP	ED	4	4	2	36	19S	28E	582311	3609372	1449	300	75	225

Average Depth to Water: 75 feet

Minimum Depth: 75 feet

Maximum Depth: 75 feet

Record Count:2

UTMNAD83 Radius Search (in meters):

Easting (X): 582271.89

Northing (Y): 3607923.18

Radius: 1610

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20CC0	CP 00926 POD1	2	1	4	01	20S	28E	581793	3607405 

x

Driller License:**Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rcv Date:****Source:** Shallow**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:**

300 feet

Depth Water:

x

Meter Number:	8505	Meter Make:	SIEMENS
Meter Serial Number:	L5174903	Meter Multiplier:	1.0000
Number of Dials:	9	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Monthly

x

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2005	2005	11779500	A	jw		0
04/12/2005	2005	12531800	A	jw		2.309
08/18/2005	2005	13801200	A	jw		3.896
12/31/2016	2016	25746500	A	RPT		0
01/31/2017	2017	27917599	A	RPT		6.663
02/28/2017	2017	30726856	A	RPT		8.621
03/31/2017	2017	32044767	A	RPT		4.045
04/30/2017	2017	34556900	A	RPT		7.709
05/31/2017	2017	37013131	A	RPT		7.538
06/30/2017	2017	39863000	A	RPT		8.746
07/31/2017	2017	41720800	A	RPT		5.701
08/31/2017	2017	43758900	A	RPT		6.255
09/30/2017	2017	46260066	A	RPT		7.676
10/31/2017	2017	49733284	A	RPT		10.659
11/30/2017	2017	52431800	A	RPT		8.281
12/31/2017	2017	54793910	A	RPT		7.249
01/31/2018	2018	55603400	A	RPT		2.484
02/28/2018	2018	57265300	A	RPT		5.100
03/31/2018	2018	57694446	A	RPT		1.317
05/31/2018	2018	64079600	A	RPT		19.595
10/01/2018	2018	0	A	RPT		0
10/31/2018	2018	12742551	A	RPT		39.105
11/30/2018	2018	13355352	A	RPT		1.881
03/31/2019	2019	17694170	A	RPT		13.315
04/30/2019	2019	19130315	A	RPT		4.407

05/31/2019	2019	22163027	A	RPT	9.307
06/30/2019	2019	25284568	A	RPT	9.580
09/30/2019	2019	35517523	A	RPT	31.404
10/31/2019	2019	35821649	A	RPT	0.933
02/29/2020	2020	43175955	A	RPT	22.570
04/30/2020	2020	46372886	A	RPT	9.811
05/04/2020	2020	46372886	A	RPT	0
05/04/2020	2020	0	A	RPT	0
05/31/2020	2020	2434800	A	RPT	7.472
08/31/2020	2020	4161600	A	RPT	5.299
09/30/2020	2020	5056000	A	RPT	2.745
10/31/2020	2020	5056000	A	WEB	0 X
11/30/2020	2020	5938750	A	WEB	2.709 X
12/31/2020	2020	8109705	A	WEB	6.662 X
01/31/2021	2021	10956400	A	RPT	8.736
02/28/2021	2021	12471600	A	RPT	4.650
04/30/2021	2021	16603200	A	ad	12.679
05/31/2021	2021	16603200	A	ad	0
05/31/2023	2023	41812393	A	ad	0
06/30/2023	2023	45595453	A	ad	11.610
08/31/2023	2023	52886604	A	ad	22.376
10/31/2023	2023	59503700	A	ad	20.307

x

**YTD Meter Amounts:	Year	Amount
	2005	6.205
	2016	0
	2017	89.143
	2018	69.482
	2019	68.946
	2020	57.268
	2021	26.065
	2023	54.293

x

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5/1/24 12:45 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01231 POD1	4	4	2	36	19S	28E	582311	3609372 
x									
Driller License: 1654		Driller Company:				NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUC			
Driller Name:									
Drill Start Date: 10/21/2013		Drill Finish Date:				10/21/2013		Plug Date:	
Log File Date: 10/29/2013		PCW Rev Date:						Source: Shallow	
Pump Type:		Pipe Discharge Size:						Estimated Yield: 80 GPM	
Casing Size: 8.00		Depth Well:				300 feet		Depth Water: 75 feet	
x									
Water Bearing Stratifications:				Top	Bottom	Description			
				200	300	Limestone/Dolomite/Chalk			
x									
Casing Perforations:				Top	Bottom				
				220	300				
x									

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Geographic Area:

United States

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323645104074001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323645104074001 19S.28E.36.43233

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°36'45", Longitude 104°07'40" NAD27

Land-surface elevation 3,292 feet above NAVD88

The depth of the well is 87 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

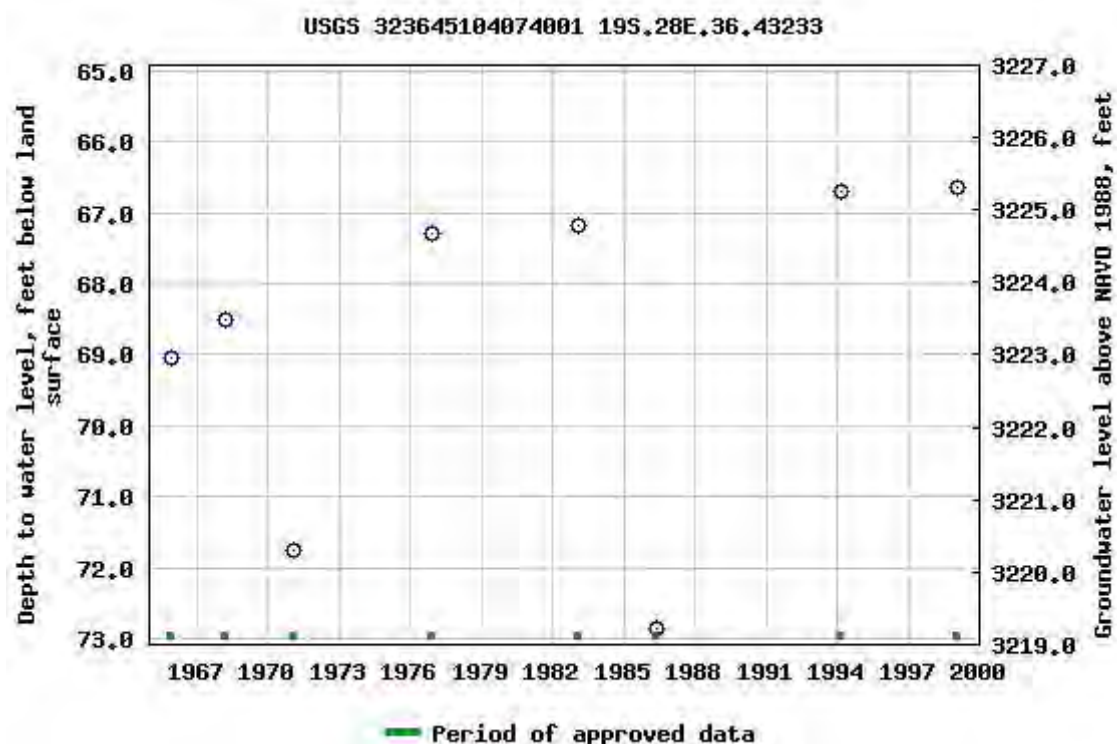
Output formats

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



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0.71 0.59 nadww01



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Agency code = usgs

site_no list =

- 323552104084101

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USGS 323552104084101 20S.28E.02.43322

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°35'52", Longitude 104°08'41" NAD27

Land-surface elevation 3,276 feet above NAVD88

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

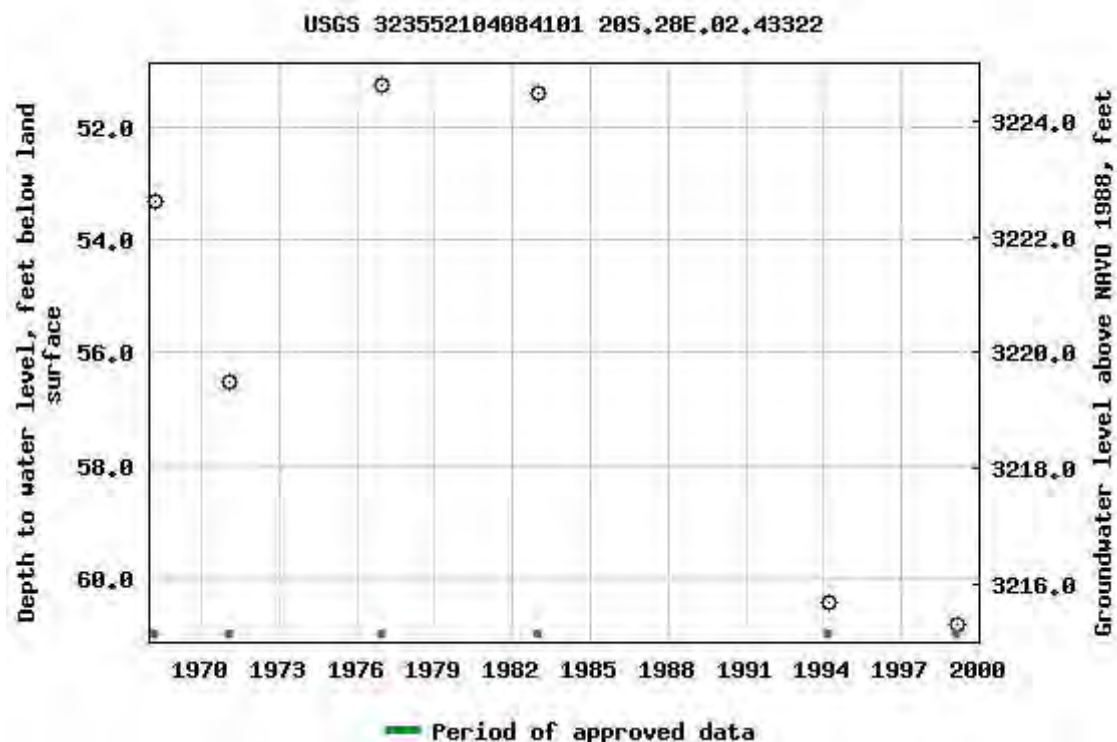
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0.62 0.52 nadww01



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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323538104070601

Minimum number of levels = 1

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USGS 323538104070601 20S.29E.07.11234

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°35'37.7", Longitude 104°07'07.8" NAD83

Land-surface elevation 3,259 feet above NAVD88

The depth of the well is 80 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

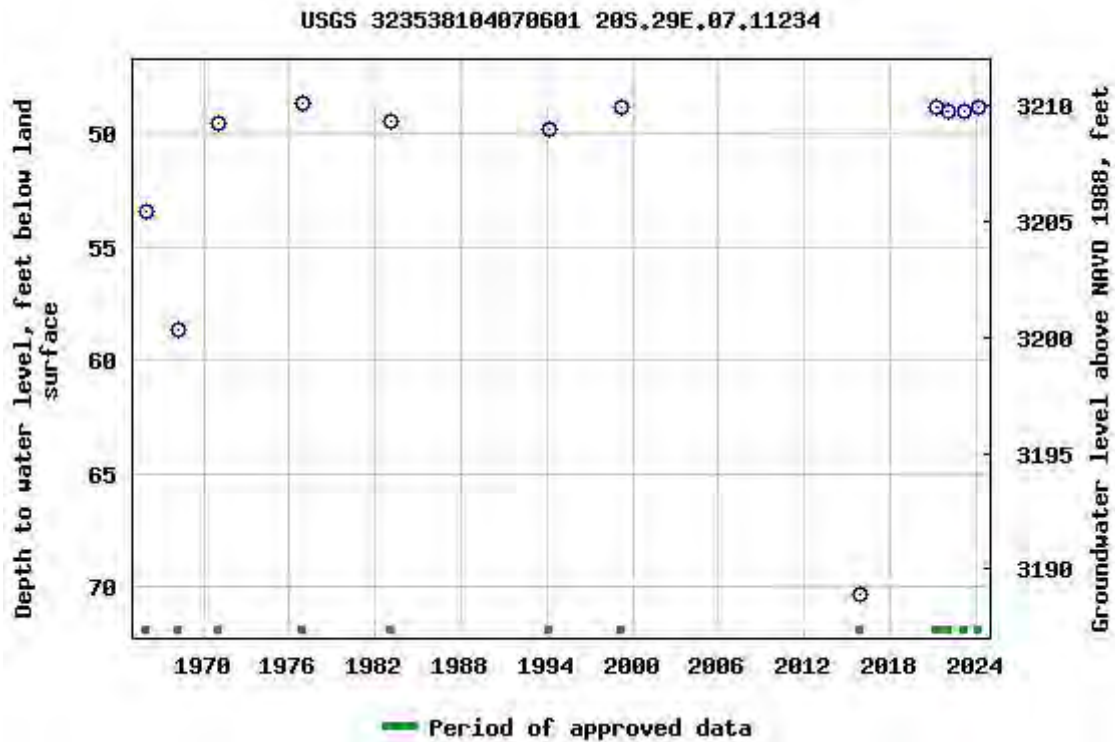
Output formats

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0.59 0.5 nadww01

Appendix B

Field Data



Sample Log

Date: _____

Project: Desert Eagle 1/2 Fed Com #521H

Project Number: 20398 Latitude: 32.60562 Longitude: -104.12344

Sample ID	PID/Odor	Chloride Conc.	GPS
FL-1 @ 1'	-	406	
FL-2 @ 1'	-	172	
FL-3 @ 1'	-	172	
FL-4 @ 1'	-	196	
FL-5 @ 1'	-	368	
FL-6 @ 1'	-	196	
FL-7 @ 1'	-	196	
FL-8 @ 1'	-	332	
FL-9 @ 1'	-	260	
FL-10 @ 1'	-	196	
FL-11 @ 1'	-	292	
FL-12 @ 1'	-	292	
FL-13 @ 1'	-	172	
FL-14 @ 1'	-	228	
FL-15 @ 1'	-	172	
FL-16 @ 1'	-	228	
FL-17 @ 1'	-	368	
FL-18 @ 1'	-	172	
FL-19 @ 1'	-	196	
FL-20 @ 1'	-	292	
FL-21 @ 1'	-	192	
FL-22 @ 1'	-	284	
FL-23 @ 1'	-	168	
FL-24 @ 1'	-	220	
FL-25 @ 1'	-	220	
FL-26 @ 1'	-	220	
FL-27 @ 1'	-	392	
FL-28 @ 1'	-	192	
FL-29 @ 1'	-	252	
FL-30 @ 1'	-	220	
FL-31 @ 1'	-	332	
FL-32 @ 1'	-	192	
FL-33 @ 1'	-	220	
FL-34 @ 1'	-	192	
FL-35 @ 1'	-	192	
EW-1	-	192	

Sample Point = SP #1 @ ## etc

Test Trench = TT #1 @ ##

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

Floor = FL #1 etc

Refusal = SP #1 @ 4'-R

Stockpile = Stockpile #1

Sidewall = SW #1 etc

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

GPS Sample Points, Center of Comp Areas



Date: _____

Project: _____

Project Number: _____ Latitude: _____ Longitude: _____


GPS Sample Points, Center of Comp Areas

Appendix C

Photographic Log

Photographic Log

Photo Number: 1	
Date: 4/9/2024	
Photo Direction: Southwest	
Coordinates: 32.605726,-104.123434	
Photo Description: View of the affected area.	

Photo Number: 2	
Date: 4/9/2024	
Photo Direction: North-Northeast	
Coordinates: 32.605457,-104.123445	
Photo Description: View of the affected area.	

Photographic Log



Photo Number: 3	
Date: 4/9/2024	
Photo Direction: Southeast	
Coordinates: 32.605598,-104.123506	
Photo Description: View of the affected area.	

Photo Number: 4	
Date: 4/9/2024	
Photo Direction: East	
Coordinates: 32.605598,-104.123506	
Photo Description: View of the affected area.	

Photographic Log

Photo Number: 5	 <p>May 22, 2024 at 9:20:15 AM Artesia NM 88210 United States</p> <p>32.605769 -104.123178</p>
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photo Number: 6	 <p>May 22, 2024 at 10:35:26 AM Artesia NM 88210 United States</p> <p>32.605781 -104.123458</p>
Photo Direction: South	
Photo Description: View of the excavated area.	

Photographic Log

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

Photo Number: 8	
Photo Direction: Southwest	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 9	 <p>May 22, 2024 at 10:36:51 AM Artesia NM 88210 United States</p> <p>32.605447 -104.123231</p>
Photo Direction: Northwest	
Photo Description: View of the excavated area.	

Photo Number: 10	 <p>May 22, 2024 at 10:37:30 AM Artesia NM 88210 United States</p> <p>32.605386 -104.123428</p>
Photo Direction: North	
Photo Description: View of the excavated area.	

Photographic Log

Photo Number: 11	
Photo Direction: South	
Photo Description: View of the excavated area.	

Photo Number: 12	
Photo Direction: Southeast	
Photo Description: View of the excavated area.	

Photographic Log



Photo Number: 13	
Photo Direction: East	
Photo Description: View of the remediated area following backfilling and regrading.	

Photo Number: 14	
Photo Direction: North-Northeast	
Photo Description: View of the remediated area following backfilling and regrading.	

Appendix D

Laboratory Analytical Reports



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

May 28, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DESERT EAGLE 1/2 FED COM #521H

Enclosed are the results of analyses for samples received by the laboratory on 05/22/24 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 @ 1' (H242820-01)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66		
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37		
Total BTX	<0.300	0.300	05/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/22/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 @ 1' (H242820-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66	
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37	
Total BTEx	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	05/22/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 3 @ 1' (H242820-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66		
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37		
Total BTEX	<0.300	0.300	05/22/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/22/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 4 @ 1' (H242820-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66	
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	192	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 5 @ 1' (H242820-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66	
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	368	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 95.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 6 @ 1' (H242820-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.16	108	2.00	2.66	
Toluene*	<0.050	0.050	05/22/2024	ND	2.24	112	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.17	108	2.00	1.32	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.70	112	6.00	1.37	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	112	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 7 @ 1' (H242820-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 8 @ 1' (H242820-08)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTX	<0.300	0.300	05/22/2024	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	288	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	210	105	200	1.79	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	209	105	200	2.53	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 9 @ 1' (H242820-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	112	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 10 @ 1' (H242820-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 11 @ 1' (H242820-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEx	<0.300	0.300	05/22/2024	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	96.0	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 12 @ 1' (H242820-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEx	<0.300	0.300	05/22/2024	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	128	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 13 @ 1' (H242820-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEx	<0.300	0.300	05/22/2024	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	96.0	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 14 @ 1' (H242820-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	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	208	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 15 @ 1' (H242820-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	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	160	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 16 @ 1' (H242820-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	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	160	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 17 @ 1' (H242820-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 18 @ 1' (H242820-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 19 @ 1' (H242820-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 20 @ 1' (H242820-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	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	176	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 21 @ 1' (H242820-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTX	<0.300	0.300	05/22/2024	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	96.0	16.0	05/22/2024	ND	400	100	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	05/22/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 22 @ 1' (H242820-22)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEX	<0.300	0.300	05/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	192	16.0	05/22/2024	ND	400	100	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	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 23 @ 1' (H242820-23)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39		
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752		
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291		
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812		
Total BTEx	<0.300	0.300	05/22/2024	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	144	16.0	05/22/2024	ND	400	100	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	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 24 @ 1' (H242820-24)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	224	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 25 @ 1' (H242820-25)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEX	<0.300	0.300	05/22/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	34.5	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 26 @ 1' (H242820-26)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	1.91	95.7	2.00	2.39	
Toluene*	<0.050	0.050	05/22/2024	ND	1.88	94.1	2.00	0.752	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	1.85	92.5	2.00	0.291	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	5.59	93.2	6.00	0.812	
Total BTEx	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	80.4	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 27 @ 1' (H242820-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40		
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28		
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21		
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29		
Total BTEx	<0.300	0.300	05/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 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	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 28 @ 1' (H242820-28)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/23/2024	ND	190	95.0	200	1.49	
DRO >C10-C28*	<10.0	10.0	05/23/2024	ND	185	92.6	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	05/23/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 29 @ 1' (H242820-29)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 30 @ 1' (H242820-30)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 31 @ 1' (H242820-31)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 95.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 32 @ 1' (H242820-32)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 33 @ 1' (H242820-33)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 34 @ 1' (H242820-34)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 35 @ 1' (H242820-35)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEx	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 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	160	16.0	05/23/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: NW 1 (H242820-36)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: EW 1 (H242820-37)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	128	16.0	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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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: 05/22/2024
 Reported: 05/28/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: WW 1 (H242820-38)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2024	ND	1.83	91.6	2.00	8.40	
Toluene*	<0.050	0.050	05/23/2024	ND	1.78	89.0	2.00	8.28	
Ethylbenzene*	<0.050	0.050	05/23/2024	ND	1.79	89.5	2.00	8.21	
Total Xylenes*	<0.150	0.150	05/23/2024	ND	5.12	85.3	6.00	8.29	
Total BTEX	<0.300	0.300	05/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/23/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2024	ND	213	107	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/22/2024	ND	193	96.6	200	2.44	
EXT DRO >C28-C36	<10.0	10.0	05/22/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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

Celey D. Keene, Lab Director/Quality Manager

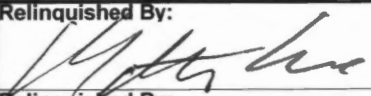




CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.				BILL TO				ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw				P.O. #:				<div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div>																					
Address: 2617 West Marland				Company: Mewbourne																									
City: Hobbs State: NM Zip: 88240				Attn: Connor Walker																									
Phone #: (575) 264-9884 Fax #:				Address:																									
Project #: 20398 Project Owner: Mewbourne				City:																									
Project Name: Desert Eagle 1/2 Fed Com #521H				State: NM Zip:																									
Project Location: 32.60562, -104.12344				Phone #:																									
Sampler Name: Aaron Rios				Fax #:																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :													DATE	TIME			
	1	FL 1 @ 1'	C 1			X				X		5/21/24		X	X	X													
	2	FL 2 @ 1'	C 1			X				X		5/21/24		X	X	X													
	3	FL 3 @ 1'	C 1			X				X		5/21/24		X	X	X													
	4	FL 4 @ 1'	C 1			X				X		5/21/24		X	X	X													
	5	FL 5 @ 1'	C 1			X				X		5/21/24		X	X	X													
	6	FL 6 @ 1'	C 1			X				X		5/21/24		X	X	X													
	7	FL 7 @ 1'	C 1			X				X		5/21/24		X	X	X													
	8	FL 8 @ 1'	C 1			X				X		5/21/24		X	X	X													
	9	FL 9 @ 1'	C 1			X				X		5/21/24		X	X	X													
	10	FL 10 @ 1'	C 1			X				X		5/21/24		X	X	X													
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Relinquished By: 			Date: 5-22-24 Time: 0805		Received By: 			Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:																					
Relinquished By:			Date: Time:		Received By:			Please email results and copy of CoC to pm@etechenv.com.																					
Delivered By: (Circle One)																													
Sampler - UPS - Bus - Other: -5-3c #140			Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) 																							



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 42 of 44

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO		ANALYSIS REQUEST												
Project Manager: Lance Crenshaw										P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>												
Address: 2617 West Marland										Company: Mewbourne														
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker														
Phone #: (575) 264-9884 Fax #:										Address:														
Project #: 20398 Project Owner: Mewbourne										City:														
Project Name: Desert Eagle 1/2 Fed Com #521H										State: NM Zip:														
Project Location: 32.60562, -104.12344										Phone #:														
Sampler Name: Aaron Rios										Fax #:														
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
H242820																								
21	FL 11 @ 1'	C	1			X				X			5/21/24		X	X	X							
12	FL 12 @ 1'	C	1			X				X			5/21/24		X	X	X							
13	FL 13 @ 1'	C	1			X				X			5/21/24		X	X	X							
14	FL 14 @ 1'	C	1			X				X			5/21/24		X	X	X							
15	FL 15 @ 1'	C	1			X				X			5/21/24		X	X	X							
16	FL 16 @ 1'	C	1			X				X			5/21/24		X	X	X							
17	FL 17 @ 1'	C	1			X				X			5/21/24		X	X	X							
18	FL 18 @ 1'	C	1			X				X			5/21/24		X	X	X							
19	FL 19 @ 1'	C	1			X				X			5/21/24		X	X	X							
20	FL 20 @ 1'	C	1			X				X			5/21/24		X	X	X							
<small>DISCLAIMER: 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.</small>																								
Relinquished By:										Date: 5-23-24		Received By:												
										Time: 0805														
Relinquished By:										Date:		Received By:												
										Time:														
Delivered By: (Circle One)										Sample Condition		CHECKED BY:												
Sampler - UPS - Bus - Other: -5.3c #140										Cool Intact		(Initials)												
										<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														
												Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: Please email results and copy of CoC to pm@etechenv.com.												

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Revision 1.0

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 43 of 44

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO		ANALYSIS REQUEST												
Project Manager: Lance Crenshaw										P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>Chloride</div> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> </div>												
Address: 2617 West Marland										Company: Mewbourne														
City: Hobbs State: NM Zip: 88240										Attn: Connor Walker														
Phone #: (575) 264-9884 Fax #:										Address:														
Project #: 20398 Project Owner: Mewbourne										City:														
Project Name: Desert Eagle 1/2 Fed Com #521H										State: NM Zip:														
Project Location: 32.60562, -104.12344										Phone #:														
Sampler Name: Aaron Rios										Fax #:														
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
1242820																								
21	FL 21 @ 1'	C	1			X				X			5/21/24		X	X	X							
22	FL 22 @ 1'	C	1			X				X			5/21/24		X	X	X							
23	FL 23 @ 1'	C	1			X				X			5/21/24		X	X	X							
24	FL 24 @ 1'	C	1			X				X			5/21/24		X	X	X							
25	FL 25 @ 1'	C	1			X				X			5/21/24		X	X	X							
26	FL 26 @ 1'	C	1			X				X			5/21/24		X	X	X							
27	FL 27 @ 1'	C	1			X				X			5/21/24		X	X	X							
28	FL 28 @ 1'	C	1			X				X			5/21/24		X	X	X							
29	FL 29 @ 1'	C	1			X				X			5/21/24		X	X	X							
30	FL 30 @ 1'	C	1			X				X			5/21/24		X	X	X							
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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.</small>																								
Relinquished By:		Date: 5-22-24		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																
Time: 0805				Stodkiewicz		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
Relinquished By:		Date:		Received By:		REMARKS:																		
Time:																								
Delivered By: (Circle One) -S-32				Sample Condition Cool Intact				CHECKED BY: (Initials)																
Sampler - UPS - Bus - Other: #140				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				8K																

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Revision 1.0

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental & Safety Solutions, Inc.		BILL TO		ANALYSIS REQUEST																					
Project Manager: Lance Crenshaw		P.O. #:		Chloride	TPH (8015M)	BTEX (8021B)																			
Address: 2617 West Marland		Company: Mewbourne																							
City: Hobbs State: NM Zip: 88240		Attn: Connor Walker																							
Phone #: (575) 264-9884 Fax #:		Address:																							
Project #: 20398 Project Owner: Mewbourne		City:																							
Project Name: Desert Eagle 1/2 Fed Com #521H		State: NM Zip:																							
Project Location: 32.60562, -104.12344		Phone #:																							
Sampler Name: Aaron Rios		Fax #:		DATE	TIME																				
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:												
	16242820																								
	31	FL 31 @ 1'	C	1			X				X			5/21/24		X	X	X							
	32	FL 32 @ 1'	C	1			X				X			5/21/24		X	X	X							
	33	FL 33 @ 1'	C	1			X				X			5/21/24		X	X	X							
	34	FL 34 @ 1'	C	1			X				X			5/21/24		X	X	X							
	35	FL 35 @ 1'	C	1			X				X			5/21/24		X	X	X							
	36	NW 1	C	1			X				X			5/21/24		X	X	X							
	37	EW 1	C	1			X				X			5/21/24		X	X	X							
	38	WW 1	C	1			X				X			5/21/24		X	X	X							
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Relinquished By:		Date: 5-22-24 Time: 0805		Received By: S. Rodriguez		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																	
		Time:				REMARKS:																			
						Please email results and copy of CoC to pm@etechenv.com.																			
Delivered By: (Circle One)		-5-32		#140		Sample Condition		CHECKED BY:																	
Sampler - UPS - Bus - Other:						Cool Intact		(Initials)																	
						<input type="checkbox"/> Yes <input type="checkbox"/> Yes		872																	
						<input type="checkbox"/> No <input type="checkbox"/> No																			



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

May 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DESERT EAGLE 1/2 FED COM #521H

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 8:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 36 @ 0.5' (H242863-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/24/2024	ND	1.71	85.7	2.00	3.44	
Toluene*	<0.050	0.050	05/24/2024	ND	1.85	92.3	2.00	3.88	
Ethylbenzene*	<0.050	0.050	05/24/2024	ND	1.89	94.6	2.00	4.07	
Total Xylenes*	<0.150	0.150	05/24/2024	ND	5.75	95.8	6.00	3.83	
Total BTEX	<0.300	0.300	05/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	416	16.0	05/24/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	320	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 87.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 37 @ 0.5' (H242863-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2024	ND	1.71	85.7	2.00	3.44		
Toluene*	<0.050	0.050	05/24/2024	ND	1.85	92.3	2.00	3.88		
Ethylbenzene*	<0.050	0.050	05/24/2024	ND	1.89	94.6	2.00	4.07		
Total Xylenes*	<0.150	0.150	05/24/2024	ND	5.75	95.8	6.00	3.83		
Total BTEX	<0.300	0.300	05/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	288	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	364	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 38 @ 0.5' (H242863-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	256	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	359	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 39 @ 0.5' (H242863-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/24/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	376	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 40 @ 0.5' (H242863-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	256	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	269	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 41 @ 0.5' (H242863-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	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	352	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	10.5	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 42 @ 0.5' (H242863-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEx	<0.300	0.300	05/25/2024	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	256	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/24/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/24/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 43 @ 0.5' (H242863-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	256	16.0	05/24/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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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: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 44 @ 0.5' (H242863-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	492	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 45 @ 0.5' (H242863-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	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	176	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	101	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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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: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 46 @ 0.5' (H242863-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	160	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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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: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 47 @ 0.5' (H242863-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	160	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 48 @ 0.5' (H242863-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	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	272	16.0	05/24/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	191	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

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

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 49 @ 0.5' (H242863-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	160	16.0	05/24/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	97.5	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 Fax To:

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FL 50 @ 0.5' (H242863-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTX	<0.300	0.300	05/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	160	16.0	05/24/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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 2617 W MARLAND
 HOBBS NM, 88240
 Fax To:

Received: 05/23/2024
 Reported: 05/29/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/22/2024
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 1 (H242863-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7		
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5		
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60		
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44		
Total BTEX	<0.300	0.300	05/25/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/24/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	439	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 19 of 20

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 #: 20398 Project Owner: Mewbourne Project Name: Desert Eagle 1/2 Fed Com #521H Project Location: 32.60562, -104.12344 Sampler Name: Aaron Rios										BILL TO P.O. #: Company: Mewbourne Attn: Connor Walker Address: City: State: NM Zip: Phone #: Fax #:			ANALYSIS REQUEST												
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING		Chloride	TPH (8015M)	BTEX (8021B)											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL												OTHER :	DATE	TIME
H242863																									
1	FL 36 @ 0.5'	C	1			X				X														5/22/24	
2	FL 37 @ 0.5'	C	1			X				X														5/22/24	
3	FL 38 @ 0.5'	C	1			X				X														5/22/24	
4	FL 39 @ 0.5'	C	1			X				X														5/22/24	
5	FL 40 @ 0.5'	C	1			X				X														5/22/24	
6	FL 41 @ 0.5'	C	1			X				X														5/22/24	
7	FL 42 @ 0.5'	C	1			X				X														5/22/24	
8	FL 43 @ 0.5'	C	1			X				X			5/22/24												
9	FL 44 @ 0.5'	C	1			X				X			5/22/24												
10	FL 45 @ 0.5'	C	1			X				X			5/22/24												
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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.</small>																									
Relinquished By: Date: 5-23-24 Time: 0851		Received By: Date: Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:		Add'l Phone #: Add'l Fax #:																			
Relinquished By: Date: Time:		Received By: Date: Time:		Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 		Please email results and copy of CoC to pm@etechenv.com.															

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

June 03, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: DESERT EAGLE 1/2 FED COM #521H

Enclosed are the results of analyses for samples received by the laboratory on 05/31/24 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 36 @ 0.67' (H243068-01)

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	06/01/2024	ND	1.63	81.3	2.00	3.34	
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48	
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28	
Total BTEX	<0.300	0.300	06/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/31/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	05/31/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	05/31/2024	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 37 @ 0.67' (H243068-02)

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	06/01/2024	ND	1.63	81.3	2.00	3.34		
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48		
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28		
Total BTEx	<0.300	0.300	06/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	06/03/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 38 @ 0.67' (H243068-03)

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	06/01/2024	ND	1.63	81.3	2.00	3.34		
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48		
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28		
Total BTEX	<0.300	0.300	06/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 39 @ 0.67' (H243068-04)

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	06/01/2024	ND	1.63	81.3	2.00	3.34	
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48	
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28	
Total BTEX	<0.300	0.300	06/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 40 @ 0.67' (H243068-05)

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	06/01/2024	ND	1.63	81.3	2.00	3.34		
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48		
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28		
Total BTEX	<0.300	0.300	06/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 44 @ 0.67' (H243068-06)

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	06/01/2024	ND	1.63	81.3	2.00	3.34		
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48		
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28		
Total BTEX	<0.300	0.300	06/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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



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: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 45 @ 0.67' (H243068-07)

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	06/01/2024	ND	1.63	81.3	2.00	3.34	
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48	
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28	
Total BTEX	<0.300	0.300	06/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FL 48 @ 0.67' (H243068-08)

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	06/01/2024	ND	1.63	81.3	2.00	3.34		
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48		
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37		
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28		
Total BTEX	<0.300	0.300	06/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/03/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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



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

Analytical Results For:

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

Received: 05/31/2024
 Reported: 06/03/2024
 Project Name: DESERT EAGLE 1/2 FED COM #521H
 Project Number: 20398
 Project Location: MEWBOURNE 32.60562, -104.12344

Sampling Date: 05/31/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW 1 (H243068-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/01/2024	ND	1.63	81.3	2.00	3.34	
Toluene*	<0.050	0.050	06/01/2024	ND	1.83	91.4	2.00	2.48	
Ethylbenzene*	<0.050	0.050	06/01/2024	ND	2.01	100	2.00	2.37	
Total Xylenes*	<0.150	0.150	06/01/2024	ND	6.19	103	6.00	3.28	
Total BTX	<0.300	0.300	06/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/03/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/01/2024	ND	221	111	200	0.0973	
DRO >C10-C28*	<10.0	10.0	06/01/2024	ND	222	111	200	0.114	
EXT DRO >C28-C36	<10.0	10.0	06/01/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Mike Snyder For 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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A handwritten signature in black ink, appearing to read "Mike Snyder".

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


CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12

Company Name: Etech Environmental & Safety Solutions, Inc.										BILL TO			ANALYSIS REQUEST															
Project Manager: Lance Crenshaw										P.O. #:			<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH (8015M)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX (8021B)</div> </div>															
Address: 2617 West Marland										Company: SEE REMARKS																		
City: Hobbs State: NM Zip: 88240										Attn:																		
Phone #: (575) 264-9884 Fax #:										Address:																		
Project #: 20398 Project Owner: Mewbourne										City:																		
Project Name: Desert Eagle 1/2 Fed Com #521H										State: NM Zip:																		
Project Location: 32.60562, -104.12344										Phone #:																		
Sampler Name: Aaron Rios										Fax #:																		
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.				GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING															
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE TIME													
<div style="font-size: 2em; font-weight: bold;">1 2 3 4 5 6 7 8 9</div>		FL 36 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 37 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 38 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 39 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 40 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 44 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 45 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		FL 48 @ 0.67'				C	1			X				X		5/31/24		X	X	X								
		SW 1				C	1			X				X		5/31/24		X	X	X								
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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.</small>																												
Relinquished By:										Date: 5-31-24		Received By:										Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:						
										Time: 1453												Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:						
Relinquished By:										Date:		Received By:										REMARKS:						
										Time:												RUSH SAMPLES - 24 HOUR						
Delivered By: (Circle One) 2-8-0												Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No										CHECKED BY: (Initials) AP						
Sampler - UPS - Bus - Other: 140																						Bill analytical charges to Mewbourne C/O Connor Walker and rush charges to Etech C/O Lance Crenshaw. Please email results and copy of CoC to pm@etechenv.com.						

 FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



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

May 29, 2024

LANCE CRENSHAW

Etech Environmental & Safety Solutions

2617 W MARLAND

HOBBS, NM 88240

RE: LEA LAND BACKFILL

Enclosed are the results of analyses for samples received by the laboratory on 05/23/24 8:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/23/2024	Sampling Date:	05/22/2024
Reported:	05/29/2024	Sampling Type:	Soil
Project Name:	LEA LAND BACKFILL	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	32.528184, -103.785455		

Sample ID: LEA LAND BACKFILL (H242864-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2024	ND	1.99	99.7	2.00	17.7	
Toluene*	<0.050	0.050	05/25/2024	ND	2.00	100	2.00	12.5	
Ethylbenzene*	<0.050	0.050	05/25/2024	ND	2.01	100	2.00	8.60	
Total Xylenes*	<0.150	0.150	05/25/2024	ND	5.95	99.2	6.00	8.44	
Total BTEX	<0.300	0.300	05/25/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/24/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2024	ND	201	100	200	0.261	
DRO >C10-C28*	<10.0	10.0	05/25/2024	ND	215	107	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	05/25/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager




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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



• CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Appendix E

Regulatory Correspondence

From: [Connor Walker](#)
To: [Ben Arguijo](#); [Lance Crenshaw](#)
Subject: FW: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 345300
Date: Friday, May 17, 2024 8:41:49 AM

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, May 17, 2024 7:41 AM
To: Connor Walker <cwalker@mewbourne.com>
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 345300

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2410855489.

The sampling event is expected to take place:

When: 05/21/2024 @ 08:00

Where: H-01-20S-28E 0 FNL 0 FEL (32.60577,-104.123187)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602 aaronr@etechnv.com

Additional Instructions: From the eastern intersection of Angel Ranch Rd and Buckskin Rd (32.572020, -104.150314), head N on Buckskin Rd for 2.35 mi, then E for 0.79 mi, then NW for 0.02 mi, then W for 0.07 mi to arrive at the Desert Eagle 1/2 Fed Com 521H release area (32.60562, -104.12344).

Samples will be taken 5/21, 5/22, 5/23, 5/24

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: [Connor Walker](#)
To: [Lance Crenshaw](#)
Cc: [Jeff Broom](#); [Ben Arguijo](#); [Matthew A. Grieco](#)
Subject: FWD: RE: [EXT] desert eagle sampling notification
Date: Wednesday, May 29, 2024 2:33:54 PM

From: OCDOnline@state.nm.us OCDOnline@state.nm.us
Sent: Wednesday, May 29, 2024 1:33 PM
To: Connor Walker cwalker@mewbourne.com
Subject: [EXT] The Oil Conservation Division (OCD) has accepted the application, Application ID: 348907

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

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2410855489.

The sampling event is expected to take place:

When: 05/31/2024 @ 08:00

Where: H-01-20S-28E 0 FNL 0 FEL (32.60577,-104.123187)

Additional Information: Sample Tech: Aaron Rios

Phone: 432-701-8602 aaronr@etechenv.com

Additional Instructions: From the eastern intersection of Angel Ranch Rd and Buckskin Rd (32.572020, -104.150314), head N on Buckskin Rd for 2.35 mi, then E for 0.79 mi, then NW for 0.02 mi, then W for 0.07 mi to arrive at the Desert Eagle 1/2 Fed Com 521H release area (32.60562, -104.12344).

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 361081

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	361081
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410855489
Incident Name	NAPP2410855489 DESERT EAGLE 1/2 FED COM #521H @ 30-015-53905
Incident Type	Release Other
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-53905] DESERT EAGLE 1 2 B2AD FEDERAL COM #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Desert Eagle 1/2 Fed Com #521H
Date Release Discovered	04/09/2024
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Human Error Tank (Any) Drilling Mud/Fluid Released: 95 BBL Recovered: 75 BBL Lost: 20 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	361081
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 04/17/2024
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QUESTIONS, Page 3

Action 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	361081
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

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 51 and 75 (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 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride	(EPA 300.0 or SM4500 Cl B)	416
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	492
GRO+DRO	(EPA SW-846 Method 8015M)	492
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.3
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

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	05/20/2024
On what date will (or did) the final sampling or liner inspection occur	05/31/2024
On what date will (or was) the remediation complete(d)	06/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	10576
What is the estimated volume (in cubic yards) that will be reclaimed	344
What is the estimated surface area (in square feet) that will be remediated	10576
What is the estimated volume (in cubic yards) that will be remediated	280

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 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:	14744
	Action Number:	361081
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<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: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/03/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 361081
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID:
	14744
	Action Number:
	361081
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	348907
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/31/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	10576
What was the total volume (cubic yards) remediated	280
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	10576
What was the total volume (in cubic yards) reclaimed	344
Summarize any additional remediation activities not included by answers (above)	Please see attached closure report for complete activities.

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 07/03/2024
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QUESTIONS, Page 7

Action 361081

QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 361081
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 361081

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 361081
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2410855489 DESERT EAGLE 1/2 FED COM #521H, thank you. This Remediation Closure Report is approved.	7/11/2024