



August 10, 2023

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Release Characterization and Remediation Report
Maverick Natural Resources, LLC
Osudo State Com 001 Tank Battery Release
Unit Letter J, Section 18, Township 20 South, Range 36 East
Lea County, New Mexico
Incident ID# nCH1819250370
1RP-5119**

Dear Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contracted by the previous site owner (ConocoPhillips) to assess a Heritage Concho release and take subsequent remedial actions at the Osudo State Com #001 (API No. 30-025-25143) tank battery release. The release footprint is located in Public Land Survey System (PLSS) Unit Letter J, Section 18, Township 20 South, Range 36 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.570761°, -103.390427°, as shown in **Figures 1 and 2**.

BACKGROUND

According to the State of New Mexico Oil Conservation Division (NMOCD) C-141 Initial Report, on July 8, 2018. The C-141 reports that the release was caused by a hole in a tank associated with oil and gas operations at the release site. Approximately 25 barrels (bbls) of crude oil were reported released, of which approximately 3 bbls of oil were recovered. The release stayed within the bermed containment, with no release to pasture. The New Mexico Oil Conservation District (NMOCD) approved the initial C-141 on July 9, 2018, and subsequently assigned the release Incident ID NCH1819250370. The initial C-141 form is available from the NMOCD Permitting portal under Incident ID nCH1819250370.

SITE CHARACTERIZATION

Receptors

Tetra Tech performed a site characterization that identified no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Oil and Gas Map online, the site is in an area of low karst potential. Receptor site characterization data is included in **Attachment 1**.

Tetra Tech, Inc.

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Depth to Groundwater

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there is one (1) water well approximately 0.45 miles away from the Site with a depth to groundwater of 34 feet below ground surface (bgs), however, Tetra Tech advanced two soil borings to depths of 50 feet bgs that identify dry clay at 50 feet bgs indicating groundwater is greater than 51 feet below ground surface at the Site and that the nearby water well may be under semi-confined conditions. Groundwater is understood to be greater than 51 feet below ground surface at the Site for the purposes of site characterization. The site characterization data are provided in **Attachment 1** and boring logs are provided in **Attachment 2**.

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization approved by the NMOCD Remediation Work Plan, and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for groundwater between 51 and 100 feet bgs are as follows:

Closure Criteria for Soils Impacted by a Release

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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INITIAL RESPONSE ACTIVITIES

Following the release, Concho removed the leaking tank from the area and moved the containment immediately east of its former location in order to access the release area for assessment activities. The approximate release extent and former tank location are presented in **Figure 3**. **Figure 4** presents the current conditions at the site. The tank and firewall were relocated just east of the approximate release extent.

SITE ASSESSMENT SUMMARY

Tetra Tech was on site on January 18, 2022, to conduct additional assessment activities on behalf of ConocoPhillips. A total of eight (8) borings (BH-1 through BH-8) were installed using an air rotary drill rig to depths ranging from 10 to 50 feet bgs to delineate the release extent and assess soils both vertically and horizontally for environmental impacts from this release.

BH-1 was drilled to a depth of 50 feet bgs within the release extent. The boring log for BH-1 is resented in **Attachment 2**. Vertical delineation was achieved at BH-1. During drilling, a trace of moisture was noted in the samples collected from the 44-45 foot interval, however, the soil sample collected at the 49-50 foot interval was dry. The field screening data collected from the 49-50 foot interval indicated that neither chloride nor TPH would exceed the proposed RRALs for the site. Tetra Tech terminated the boring to avoid encountering groundwater. The borehole was plugged with 3/8-inch chip bentonite. Boring locations are presented in **Figure 4**.

A total of fifty-two (52) samples were collected from the eight (8) borings and submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for chloride via method SM4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. Copies of the laboratory analytical reports and chain-of-custody documentation are available in the NMOCD Permitting portal under the Incident ID.

SUMMARY OF SAMPLING RESULTS

Results from the January 2022 soil sampling events are summarized in **Table 1**. Analytical results associated with borings BH-1 (39-40 feet bgs and 44-45 feet bgs), BH-2 (6-7 feet bgs, 9-10 feet bgs, and 14-15 feet bgs), BH-6 (34-35 feet bgs), and BH-8 (14-15 feet bgs) exceeded the Site RRAL for chloride (600 mg/kg). Additionally, analytical results associated with boring locations BH-1, BH-2, BH-3, BH-4, and BH-6 exceeded the Site RRAL for TPH (100 mg/kg) at various depth intervals ranging from surface soils at BH-1 and BH-2 to 45 feet bgs at BH-1. There were no analytical results that exceeded the Site RRAL for BTEX (50 mg/kg) or benzene (10 mg/kg).

Vertical delineation for chloride and TPH impacts was achieved in the 49-50 feet bgs sample collected from BH-1. Horizontal delineation was achieved in surface soils at boring locations BH-4 through BH-8, although analytical samples associated with deeper soils had chloride and TPH concentrations that exceeded the Site RRALs at boring locations BH-4, BH-6, and BH-8.

NMOCD-APPROVED REMEDIATION WORK PLAN

The Release Characterization and Remediation Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on February 23, 2022. The Work Plan described the

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results of the release assessment and provided a characterization of the impact at the site. The Work Plan was approved via email by Bradford Billings on 3/7/2022.

Approved Variance

The NMOCD-approved work plan includes a variance request for the installation of a reinforced polyethylene liner to be installed to 4 feet bgs to provide an engineered barrier to inhibit the downward migration of residual constituents to groundwater. Additionally, the approved work plan stipulated NMOCD notification upon completion of excavation in lieu of notification of sampling two business days in advance.

Approved Alternative Confirmation Sampling Plan

The NMOCD-approved work plan includes three (3) confirmation floor samples and 10 confirmation sidewall samples for verification of remedial activities. The excavation encompasses a surface area of approximately 1,000 square feet. These confirmation sidewall and floor samples are representative of no more than approximately 500 square feet of excavated area.

REMEDATION AND CONFIRMATION SAMPLING

Excavation activities commenced on November 16, 2022, and concluded on November 18, 2022. Maverick's subcontractor, SDR Enterprises, used heavy equipment to excavate impacted soil from the remediation areas to maximum depths of 1 foot and 4 feet bgs as shown in **Figure 5**. To avoid any potential contact by heavy equipment with the pressurized lines, heavy equipment was maintained at a distance of at least 2 feet from pressurized lines.

SDR excavated a total of 160 cubic yards of contaminated soil from an approximately 1,000 square foot area and transported the soil to Lea Land Disposal in Carlsbad, New Mexico. To backfill the excavated areas, 160 cubic yards of clean fill were obtained from the Merchant Land & Cattle Company.

Confirmation Sampling Notification

On November 18, 2022, Steve Jester, formerly of Tetra Tech, notified the NMOCD via email of the completed excavation in accordance with the approved variance discussed above. Subsequent C-141N Sampling Notification submissions have been made to the NMOCD Permitting portal since the implementation of the digital C-141 process in December of 2023.

Confirmation Sampling

Upon reaching the final lateral and vertical excavation extents of the excavation, Tetra Tech collected 13 confirmation samples including three (3) floor samples and 10 side wall samples from the excavated areas. The remediation excavation confirmation sampling area was comprised of approximately 1,000 square feet of base and 520 square feet of sidewall for a total area of 1,520 square feet and a sampling density of approximately one confirmation sample per 117 square feet.

Confirmation samples were submitted to Cardinal Laboratory in Hobbs, New Mexico for analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 CL-B. Laboratory analytical results for submitted confirmation samples reported concentrations of BTEX, TPH, and chloride as less

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than respective Reclamation Requirements for samples analyzed demonstrating clean margins. Confirmation sampling locations are shown in **Figure 5**.

Confirmation sample laboratory analytical results screened against Reclamation are summarized in **Table 2** and laboratory analytical data packages including chain of custody documentation are included in **Attachment 3**.

Excavation Backfill

On November 18, 2022, subsequent to the receipt of confirmation sample results, SDR installed a 20-mil HDPE liner in the 4 foot excavation prior to backfilling both excavated areas with sandy caliche to restore the facility pad surface. Photographic Documentation showing the excavated areas and final grading after backfilling is provided in **Attachment 4**.

Reclamation

To restore the impacted surface areas to the condition that existed prior to the release, the excavated areas have been backfilled with clean topsoil and then topped with caliche to restore the facility pad surface disturbed areas to match the surrounding topography and the pre-existing condition, providing erosion control, long-term stability, preventing ponding of water, and preserving surface water flow patterns. The excavation areas were on the facility pad, therefore no reseeding was required at the Site.

CONCLUSIONS

Based on the results of the confirmation sampling, the remaining impacted soil within the release footprint with chloride or TPH concentrations above applicable Reclamation Requirements and/or RRALs has been removed and properly disposed of; therefore, Site remediation is complete. The excavated area has been backfilled with clean material. The backfilled areas have been graded and reclamation is complete. If you have any questions concerning the remediation activities for the Site, please contact Charles Terhune by email at chuck.terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



Charles H. Terhune IV, P.G.
Program Manager
Tetra Tech, Inc.



Stephen Jester
Program Manager
Tetra Tech, Inc.

Cc:
Mr. Bryce Wagoner – Maverick Natural Resources

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LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Initial Excavation Map
- Figure 4 – Release Assessment Map
- Figure 5 – Remediation Extent and Confirmation Sample Locations

Tables:

- Table 1 – Summary of Analytical Results – Soil Assessment
- Table 2 – Summary of Analytical Results – Confirmation Samples

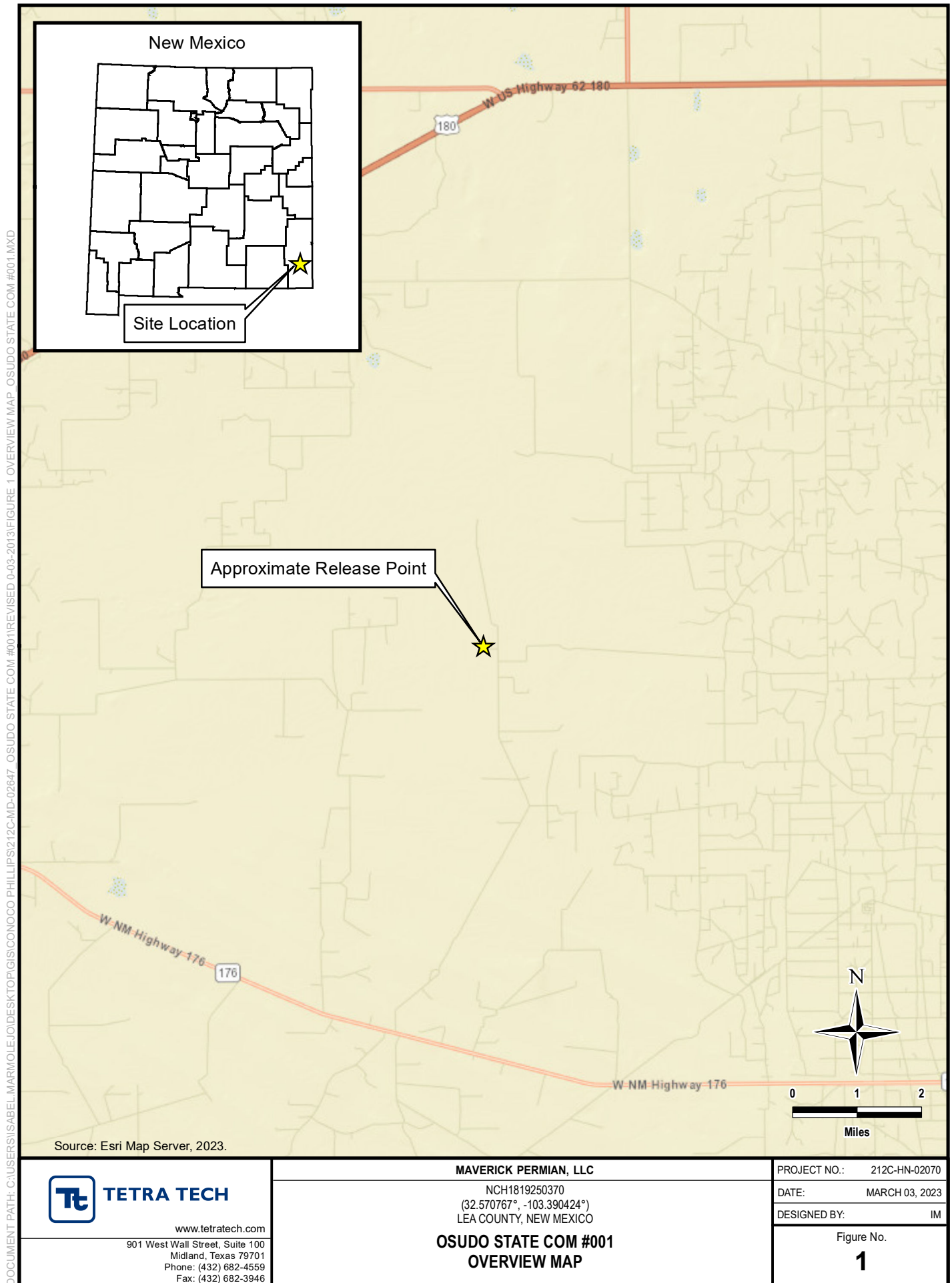
Appendices:

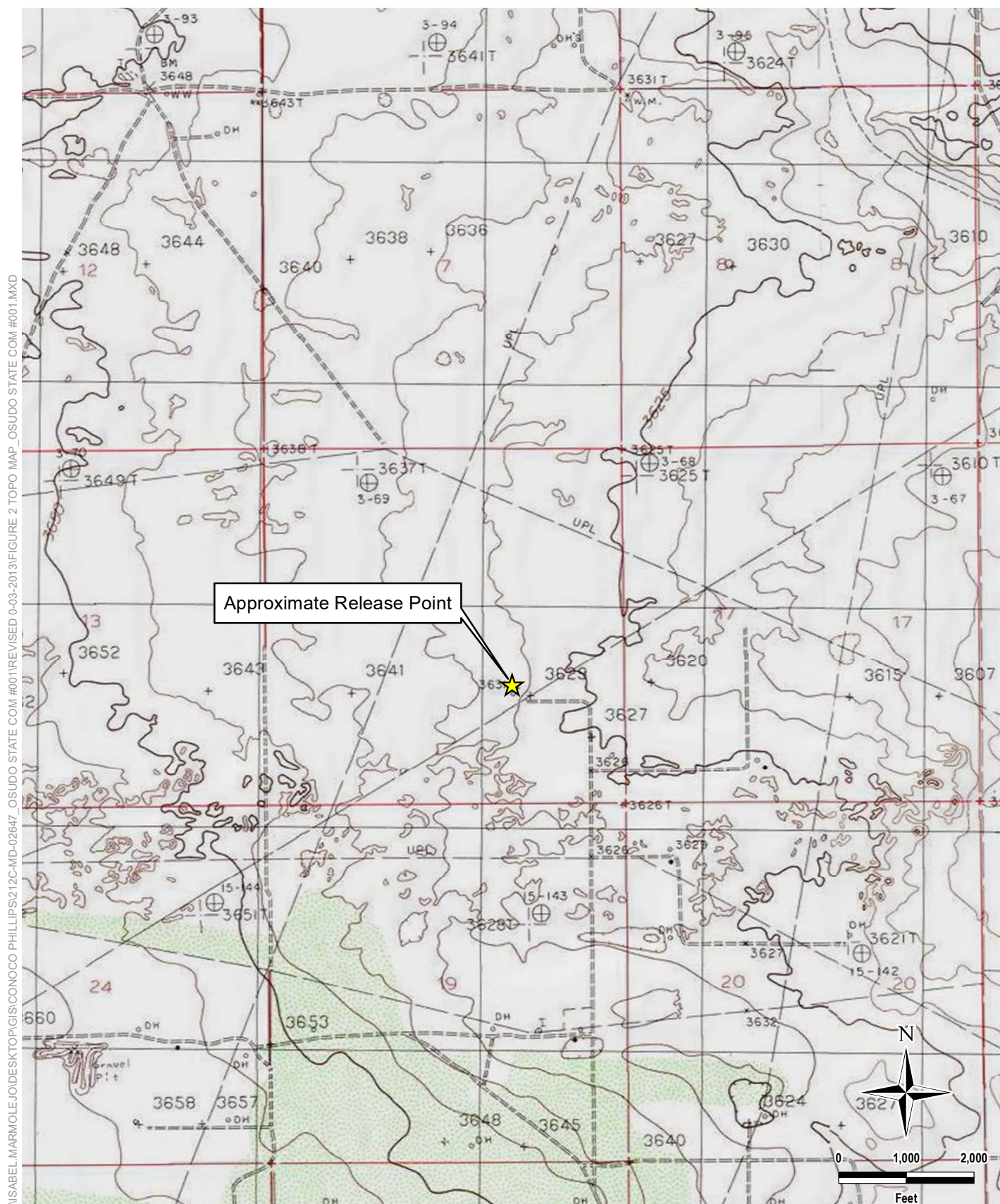
- Attachment 1 – Site Characterization Data
- Attachment 2 – Borelogs
- Attachment 3 – Laboratory Analytical Data
- Attachment 4 – Photographic Documentation
- Attachment 5 – NMSLO Seed Mixture Details

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FIGURES





Source: Esri Map Server, 2019.



TETRA TECH

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MAVERICK PERMIAN, LLC

NCH1819250370D
(32.570767°, -103.390424°)
LEA COUNTY, NEW MEXICO

**OSUDO STATE COM #001
TOPOGRAPHIC MAP**

PROJECT NO.:	212C-HN-02070
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DATE: MARCH 03, 2023

DESIGNED BY: IM

Figure No.

2

DOCUMENT PATH: C:\USERS\ISABEL MARMOLEJO\DESKTOP\GIS\CONOCO PHILLIPS\212C-MD-02647 OSUDO STATE COM #001\REVISED 0-03-2013\FIGURE 3 APPROX RELEASE EXTENT OSUDO STATE COM #001.MXD



Legend



Approximate Release Point



Approximate Release Extent

Source: Google Earth Imagery, 2017.



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NCH1819250370
(32.570767°, -103.390424°)
LEA COUNTY, NEW MEXICO

**OSUDO STATE COM #001
APPROXIMATE RELEASE EXTENT MAP**

PROJECT NO.: 212C-HN-02070

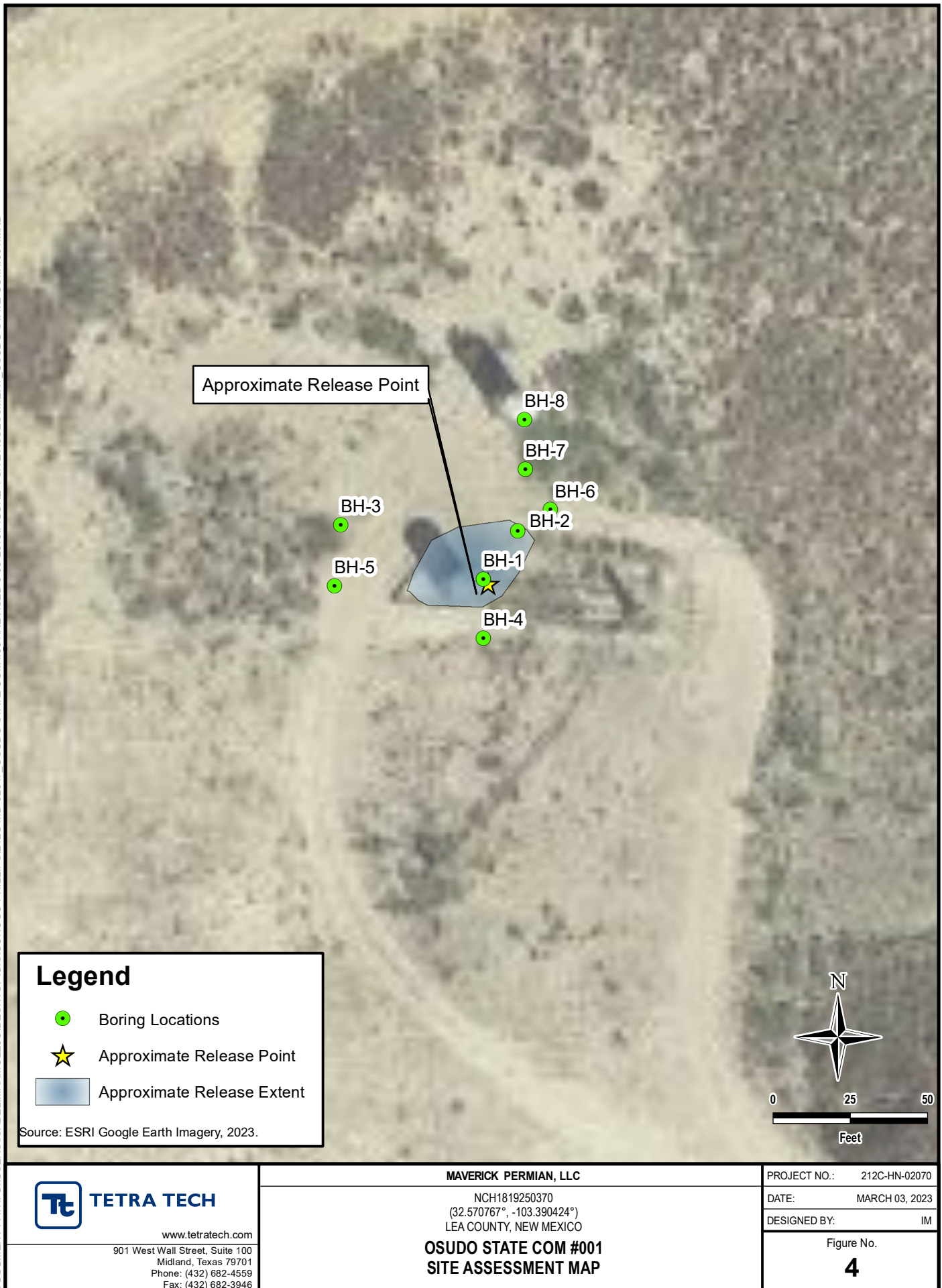
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DESIGNED BY: IM

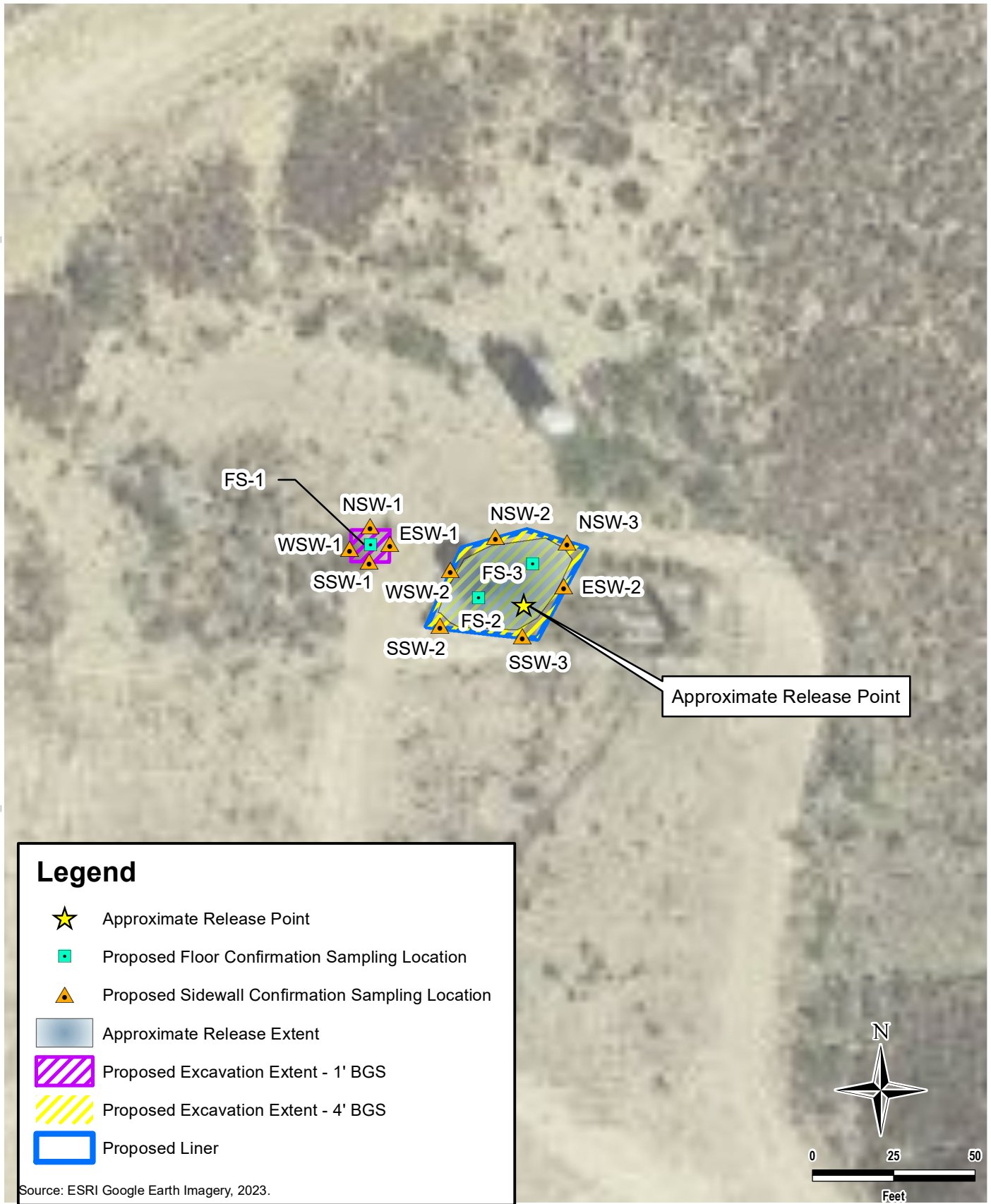
Figure No.


3

DOCUMENT PATH: C:\USERS\ISABEL MARMOLEJO\DESKTOP\GIS\CONOCO PHILLIPS\212C-MD-02647 OSUDO STATE COM #001\REVISED 0-03-2013\FIGURE 4 SITE ASSESSMENT OSUDO STATE COM #001.MXD



DOCUMENT PATH: C:\USERS\ISABEL.MARMOLEJO\DESKTOP\GIS\CONOCO PHILLIPS\212C-MD-02647_OSUDO STATE COM #001\REVISED 0-03-2013\FIGURE 5 ALTERNATIVE CONFIRMATION SAMPLING PLAN_OSUDO STATE COM #001.MXD



<div>TETRA TECH</div> <div>www.tetrattech.com</div> <div>901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946</div>	<div>MAVERICK PERMIAN, LLC</div> <div>NCH1819250370 (32.570767°, -103.390424°) LEA COUNTY, NEW MEXICO</div> <div>OSUDO STATE COM #001</div> <div>REMEDIATION EXTENTS AND CONFIRMATION SAMPLE LOCATIONS</div>	<div>PROJECT NO.: 212C-HN-02070</div> <div>DATE: MARCH 03, 2023</div> <div>DESIGNED BY: IM</div> <div>Figure No. 5</div>
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Maverick Permian, LLC
August 10, 2023

TABLES

TABLE 1
SUMMARY OF ASSESSMENT ANALYTICAL RESULTS
SOIL ASSESSMENT - NCH1819250370
MAVERICK PERMIAN, LLC
OSUDO STATE COM 001 TANK BATTERY RELEASE
LEA COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Chloride ^{1,2}		BTEX ^{3,4}										TPH ^{5,6}									
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO ⁷		DRO		ORO		TPH (GRO+DRO)	To+AA2:AA58tal TPH (GRO+DRO+ORO)		
		ft. bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q				
Reclamation Requirements (19.15.29 NMAC)			600		10								50								-	100		
RRALs (Table I 19.15.29.12 NMAC)			10,000		10								50								1,000	2,500		
BH-1	1/18/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		300		< 10.0		300	300		
		2-3	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		116		< 10.0		116	116		
		4-5	128		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		14.6		< 10.0		14.6	15		
		6-7	112		< 0.050		< 0.050	GC-NC	0.336	GC-NC1	2.93	GC-NC1	3.27	GC-NC1	54.2		590		< 10.0		644.2	644		
		9-10	112		< 0.050		< 0.050	GC-NC	0.29	GC-NC1	3.27	GC-NC1	3.56	GC-NC1	31.3		422		< 10.0		453.3	453		
		14-15	48		< 0.050		0.627	GC-NC1	2.91	GC-NC1	21.7	GC-NC1	25.2	GC-NC1	160		816		< 10.0		976	976		
		19-20	208		< 0.200		1.01	GC-NC1	3.52	GC-NC1	32	GC-NC1	36.5	GC-NC1	221		1090		< 10.0		1,311	1,311		
		24-25	192		< 0.050		0.16	GC-NC1	0.564	GC-NC1	6.43	GC-NC1	7.15	GC-NC1	74.7		500		< 10.0		574.7	575		
		29-30	128		< 0.050		0.419	GC-NC1	1.29	GC-NC1	12.1	GC-NC1	13.8	GC-NC1	176		857		< 10.0		1,033	1,033		
		34-35	352		< 0.050		0.067	GC-N1,QM-07	0.649	GC-NC1	5.27	GC-NC1	5.98	GC-NC1	219		932		< 10.0		1,151	1,151		
		39-40	608		< 0.200		0.598	GC-NC1	1.77	GC-NC1	19.5	GC-NC1	21.8	GC-NC1	264		1530		< 10.0		1,794	1,794		
44-45	1,220		< 0.200		1.19	GC-NC1	2.71	GC-NC1	31.2	GC-NC1	35.1	GC-NC1	355		1870		< 10.0		2,225	2,225				
49-50	288		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		76.30		< 10.0		76	76				
BH-2	1/18/2022	0-1	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		231	QM-07	< 10.0		231	231		
		2-3	304		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		149		< 10.0		149	149		
		4-5	416		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		112		< 10.0		112	122		
		6-7	816		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		136		< 10.0		136	136		
		9-10	1,100		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		51.1		< 10.0		51.1	51.1		
		14-15	704		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		61.2		< 10.0		61.2	61.2		
BH-3	1/18/2022	0-1	80		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		107		< 10.0		107	107		
		2-3	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		14.3		< 10.0		14.3	14.3		
		4-5	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		6-7	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		9-10	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		14-15	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		19-20	512		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
BH-4	1/18/2022	0-1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		2-3	96		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		4-5	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		6-7	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	144		< 10.0		144	144		
		9-10	272		< 0.050		< 0.050		< 0.050		1.08	GC-NC1	1.08	GC-NC1	55.4		1070		12.9		1,125.4	1,138		
		14-15	272		< 0.200		1.1	GC-NC1	2.65	GC-NC1	28.8	GC-NC1	32.6	GC-NC1	654		2980		36.4		3,634	3,670		
		19-20	304		< 0.050		0.312	GC-NC1	1.53	GC-N1,QM-07	14.1	GC-N1,QM-07	15.9	GC-NC1	481		2840		32.8		3,321	3,354		
BH-5	1/18/2022	0-1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		2-3	96		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		4-5	16		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		6-7	32		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		9-10	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	31.2		< 10.0		31.2	31.2		
		14-15	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		19-20	112		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
BH-6	1/18/2022	0-1	48		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	55.8		< 10.0		55.8	55.8		
		2-3	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	23.0		< 10.0		23.0	23.0		
		4-5	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	19.4		< 10.0		19.4	19.4		
		14-15	144		< 0.050		< 0.050		0.364	GC-NC1	0.268	GC-NC1	0.633	GC-NC1	52		524		< 10.0		576	576		
		34-35	8,320		< 0.050		< 0.050		0.072	GC-NC1	< 0.150		< 0.300		36.4		640		< 10.0		676	676		
BH-7	1/18/2022	0-1	64		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		4-5	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	96.2		< 10.0		96.2	96.2		
		9-10	240		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
BH-8	1/18/2022	0-1	144		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	16.7		< 10.0		16.7	16.7		
		4-5	208		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		9-10	224		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0	< 10.0	< 10.0		< 10.0		< 30.0	< 30.0		
		14-15	1,150		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300		< 10.0		< 10.0		< 10.0		< 30.0	< 30.0		

NOTES:
ft. Feet
bgs Below ground surface
ppm Parts per million
mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
ORO Oil range organics

1 EPA Method 300.0
2 Method SM4500Cl-B
3 EPA Method 8260B
4 EPA Method 8021B

5 EPA Method 8015
6 EPA Method 8015M
7 EPA Method 8015D/GRO

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
CONFIRMATION SAMPLING - NCH1819250370
MAVERICK PERMIAN, LLC
OSUDO STATE COM 001 RELEASE
LEA COUNTY, NM

Sample ID	Sample Date	Sample Depth	Chloride ¹		BTEX ²										TPH ³							
					Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
															C ₆ - C ₁₀		> C ₁₀ - C ₂₈		> C ₂₈ - C ₃₆			
		feet bgs	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	
FS-1	11/16/2022	1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
FS-2	11/16/2022	4	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
FS-3	11/16/2022	4	64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
NSW-1	11/16/2022	1	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
NSW-2	11/16/2022	0-2	48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
NSW-3	11/16/2022	0-2	96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
ESW-1	11/16/2022	1	80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
ESW-2	11/16/2022	0-2	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SSW-1	11/16/2022	1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SSW-2	11/16/2022	0-2	128.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
SSW-3	11/16/2022	0-2	96		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
WSW-1	11/16/2022	1	32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	
WSW-2	11/16/2022	0-2	144.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		<30.0	

NOTES:

ft.	Feet	TPH Total Petroleum Hydrocarbons	1 Method SM4500CI-B
bgs	Below ground surface	GRO Gasoline range organics	2 Method 8021B
mg/kg	Milligrams per kilogram	DRO Diesel range organics	3 Method 8015M

Site Remediation Report and Closure Report
Osudo State Com #001 Tank Battery Release
Incident ID# nCH1819250370

Maverick Permian, LLC
August 10, 2023

ATTACHMENT 1

Site Characterization Data



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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
L_02420		L	LE	4	1	18	20S	36E		650577	3605304*	710	80	34	46

Average Depth to Water: **34 feet**

Minimum Depth: **34 feet**

Maximum Depth: **34 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 651090

Northing (Y): 3604812

Radius: 800

*UTM location was derived from PLSS - see Help

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

12/27/21 10:33 AM

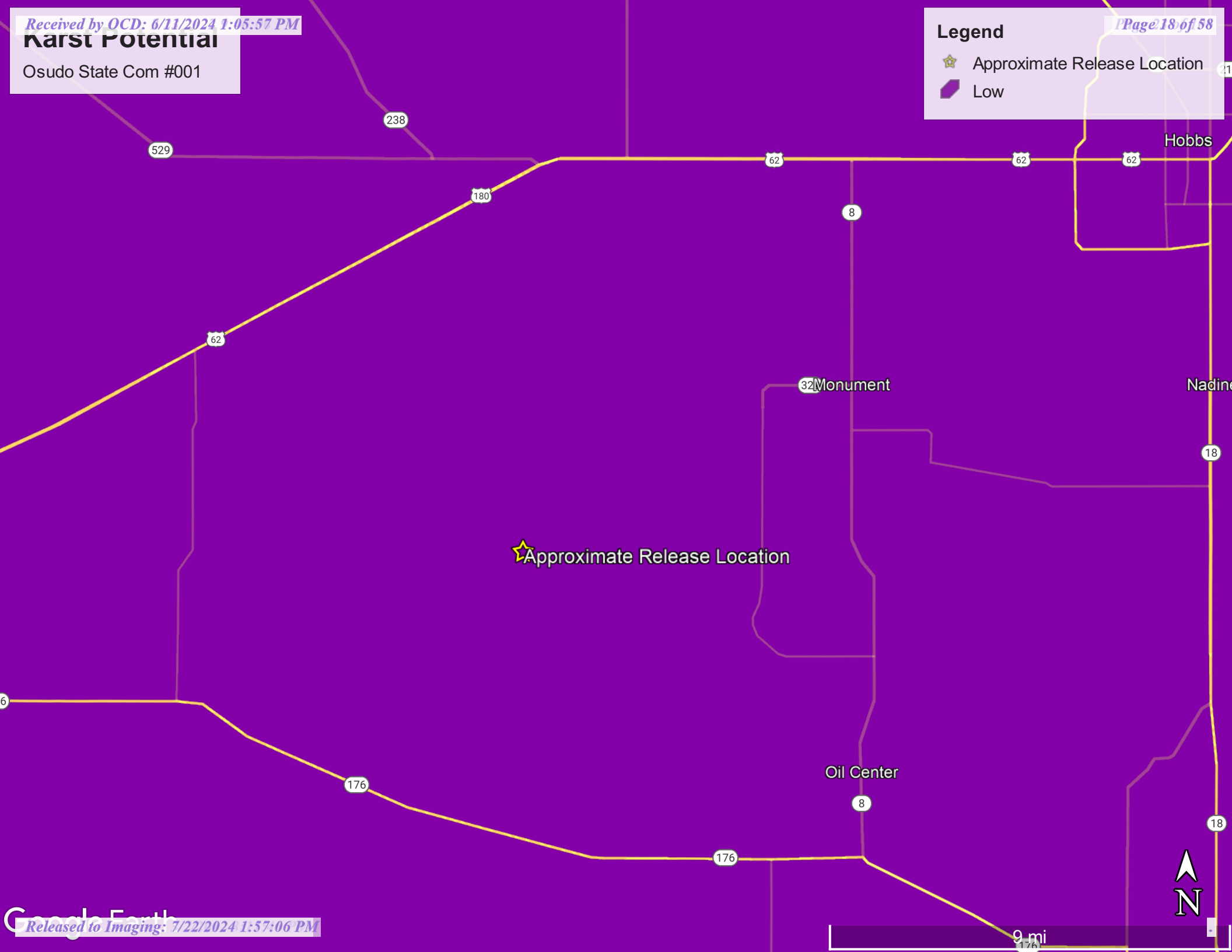
WATER COLUMN/ AVERAGE DEPTH TO
WATER

Karst Potential

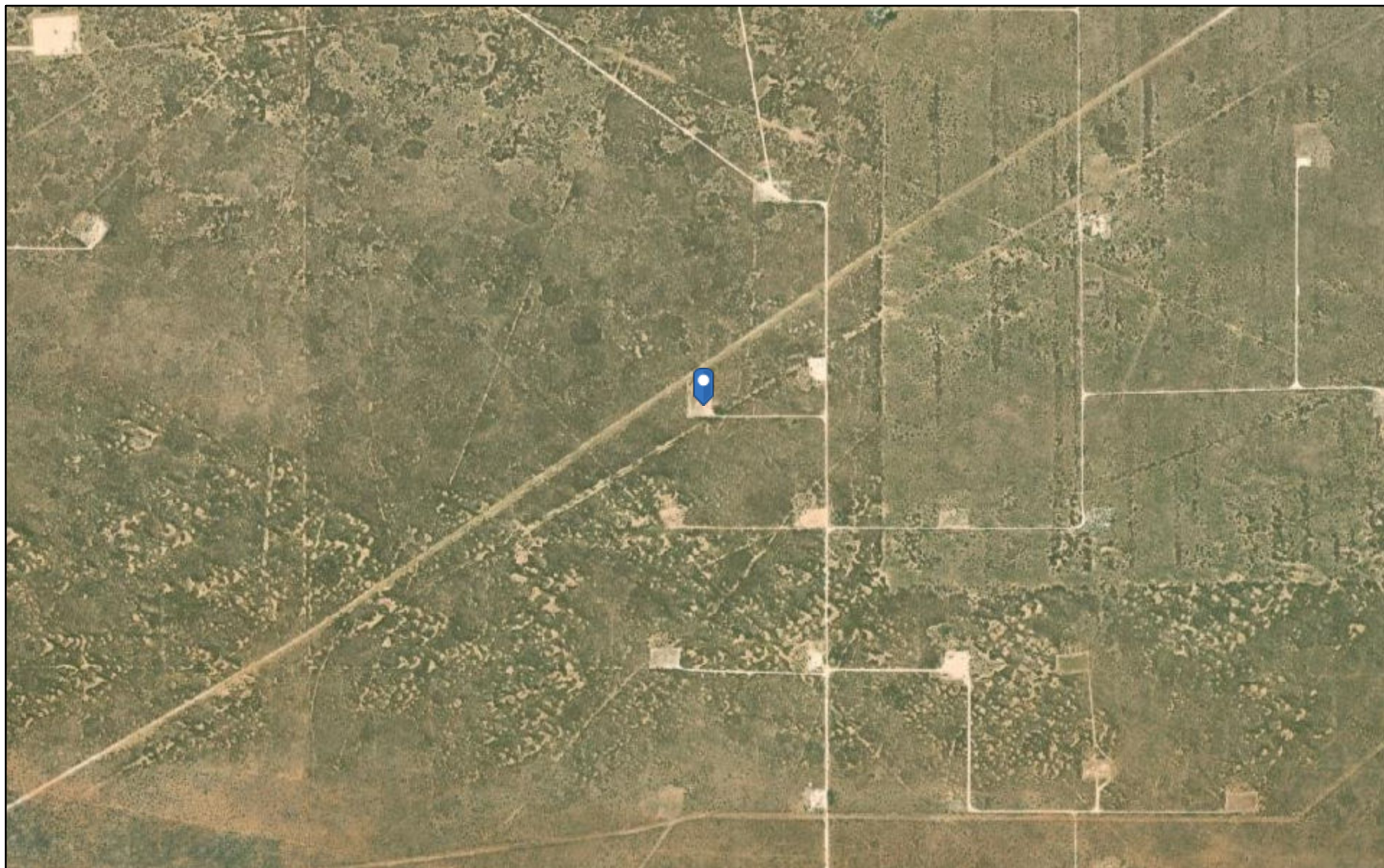
Osuda State Com #001

Legend

-  Approximate Release Location
-  Low

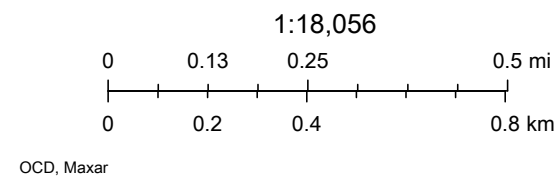


OCD Water Bodies



12/27/2021, 11:26:31 AM

- ★ OCD District Offices
- PLJV Probable Playas
- OSE Water-bodies
- OSE Streams





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
L 02420		4 1 18 20S 36E	650577	3605304*

Driller License: 111 **Driller Company:** BURKE, EDWARD B.
Driller Name: BURKE, EDWARD B.
Drill Start Date: 11/25/1953 **Drill Finish Date:** 11/25/1953 **Plug Date:** 07/11/1962
Log File Date: 12/03/1953 **PCW Rcv Date:** 12/03/1953 **Source:** Shallow
Pump Type: **Pipe Discharge Size:** **Estimated Yield:**
Casing Size: 7.00 **Depth Well:** 80 feet **Depth Water:** 34 feet

Water Bearing Stratifications:	Top	Bottom	Description
	42	64	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	30	70

*UTM location was derived from PLSS - see Help

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

3/7/23 12:56 PM

POINT OF DIVERSION SUMMARY

Site Remediation Report and Closure Report
Osudo State Com #001 Tank Battery Release
Incident ID# nCH1819250370

Maverick Permian, LLC
August 10, 2023

ATTACHMENT 2

Boring Logs

212C-MD-02647		TETRA TECH		LOG OF BORING BH-1				Page 1 of 1	
Project Name: Osudo State Com #001									
Borehole Location: GPS: 32.570786°, -103.390472°					Surface Elevation: 3635 ft				
Borehole Number: BH-1				Borehole Diameter (in.): 8 in.		Date Started: 1/18/2022		Date Finished: 1/18/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS			
												While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft Remarks:			
												MATERIAL DESCRIPTION	DEPTH (ft)	REMARKS	
5				245									-SM- SILTY SAND, red, loose, dry, fine grained, faint staining, faint hydrocarbons odor	2	
10													-SM- SILTY SAND, grey, loose, dry, fine grained, heavy staining, heavy hydrocarbons odor		
15				179											
20															
25				218											
30															
35				375											
40				228									-SC- CLAYEY SAND, red, dense, dry, with Clay pockets, faint hydrocarbons odor	39	
45				400									-SC- CLAYEY SAND, red, dense, moist, with Clay pockets, faint hydrocarbons odor	44	
50				50									-CL- LEAN CLAY, red, hard, dry	49	
												Bottom of borehole at 50.0 feet.			

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes:
--	--	--------

Logger: Adrian Garcia	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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212C-MD-02647		TETRA TECH		LOG OF BORING BH-1				Page 1 of 1	
Project Name: Osudo State Com #001									
Borehole Location: GPS: 32.570786°, -103.390472°					Surface Elevation: 3635 ft				
Borehole Number: BH-1				Borehole Diameter (in.): 8 in.		Date Started: 1/18/2022		Date Finished: 1/18/2022	

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			While Drilling <u>▽ DRY</u> ft Upon Completion of Drilling <u>▽ DRY</u> ft Remarks:			
												MATERIAL DESCRIPTION			
5				245								-SM- SILTY SAND, red, loose, dry, fine grained, faint staining, faint hydrocarbons odor	2		
10												-SM- SILTY SAND, grey, loose, dry, fine grained, heavy staining, heavy hydrocarbons odor			
15				179											
20															
25				218											
30															
35				375											
40				228								-SC- CLAYEY SAND, red, dense, dry, with Clay pockets, faint hydrocarbons odor	39		
45				400								-SC- CLAYEY SAND, red, dense, moist, with Clay pockets, faint hydrocarbons odor	44		
50				50								-CL- LEAN CLAY, red, hard, dry	49		
												Bottom of borehole at 50.0 feet.		50	

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes:
--	--	--------

Logger: Adrian Garcia	Drilling Equipment: Air Rotary	Driller: Scarborough Drilling
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Site Remediation Report and Closure Report
Osudo State Com #001 Tank Battery Release
Incident ID# nCH1819250370

Maverick Permian, LLC
August 10, 2023

ATTACHMENT 3

Laboratory Analytical Data



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

November 17, 2022

CHUCK TERHUNE

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: OSUDO STATE COM #001 TB RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/22 14:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 1 (H225425-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	1.81	90.7	2.00	14.4		
Toluene*	<0.050	0.050	11/16/2022	ND	1.92	96.1	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	1.89	94.6	2.00	10.8		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	5.83	97.2	6.00	9.47		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 78.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.4 % 46.3-178

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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: NSW - 1 (H225425-02)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 72.7 % 46.3-178

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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SSW - 1 (H225425-03)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: ESW - 1 (H225425-04)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 80.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WSW - 1 (H225425-05)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 2 (H225425-06)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	199	99.7	200	1.42		
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	189	94.5	200	0.757		
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND						

Surrogate: 1-Chlorooctane 89.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: FS - 3 (H225425-07)

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	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: NSW - 2 (H225425-08)

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	11/17/2022	ND	1.87	93.6	2.00	5.76	
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93	
Total BTEX	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39		
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34		
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND						

Surrogate: 1-Chlorooctane 77.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.6 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: NSW - 3 (H225425-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: ESW - 2 (H225425-10)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2022	ND	1.87	93.6	2.00	5.76	
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07	
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31	
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93	
Total BTEX	<0.300	0.300	11/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39		
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34		
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND						

Surrogate: 1-Chlorooctane 81.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SSW - 2 (H225425-11)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 87.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.6 % 46.3-178

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Analytical Results For:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: SSW - 3 (H225425-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEX	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/17/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.9 % 46.3-178

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:

TETRA TECH
 CHUCK TERHUNE
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	11/16/2022	Sampling Date:	11/16/2022
Reported:	11/17/2022	Sampling Type:	Soil
Project Name:	OSUDO STATE COM #001 TB RELEASE	Sampling Condition:	** (See Notes)
Project Number:	212C - HN - 02070	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK - LEA CO NM		

Sample ID: WSW - 2 (H225425-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2022	ND	1.87	93.6	2.00	5.76		
Toluene*	<0.050	0.050	11/17/2022	ND	1.93	96.6	2.00	5.07		
Ethylbenzene*	<0.050	0.050	11/17/2022	ND	1.92	96.2	2.00	5.31		
Total Xylenes*	<0.150	0.150	11/17/2022	ND	5.88	98.0	6.00	5.93		
Total BTEx	<0.300	0.300	11/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/17/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/17/2022	ND	211	106	200	4.39	
DRO >C10-C28*	<10.0	10.0	11/17/2022	ND	188	93.9	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/17/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.3 % 46.3-178

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #: Test Tech

Company: Monteith

Attn: Erin Thompson

Address: by email

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Project Name: Drain State Can #1 Tank Bottoms

Project Location: Lea County, NM

Sample Name: Lea County Borehole

FOR LAB USE ONLY

Lab I.D. _____ Sample I.D. _____

H2545

		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			TPH	BTEX	Chlorides		
1	EG-1														
2	NSW-1														
3	SLW-1														
4	BLW-1														
5	LSW-1														
6	EG-2														
7	EG-3														
8	NSW-2														
9	NSW-3														
10	BLW-2														

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Relinquished By: _____ Date: 11/16/22 Received By: _____ Verbal Result: ☐ Yes ☒ No Add'l Phone #: _____

Time: 1454 Date: 11/16/22 Received By: Erin Thompson All Results are emailed. Please provide Email address: _____

Delivered By: (Circle One) _____ Observed Temp. °C 15.6 Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No CHECKED BY: _____ (Initials) _____

Sampler - UPS - Bus - Other: _____ Corrected Temp. °C 10.0 Turnaround Time: _____ Standard ☒ Rush ☐ Bacteria (only) Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No Corrected Temp. °C _____

FORM 006 R 5.3 07/10/22

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/12

Company Name: <u>Maverick Natural Resources</u>		BILL TO		ANALYSIS REQUEST																																													
Project Manager: <u>Chuck Terhune</u>		P.O. #: <u>Teta Tech</u>																																															
Address:		Company: <u>Maverick</u>																																															
City:		Attn: <u>Chuck Terhune</u>																																															
State:		Address: <u>by email</u>																																															
Zip:		City:																																															
Phone #:		State:																																															
Fax #:		Zip:																																															
Project #: <u>2024-MN-02070</u>		Project Owner:																																															
Project Name: <u>Grado Spill Cont #1 Tank Bottom Release</u>		City:																																															
Project Location: <u>Los Alamos, NM</u>		State:																																															
Sampler Name: <u>Colleen Bickert</u>		Phone #:																																															
FOR LAB USE ONLY		Fax #:																																															
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		TPH		BTEX		Chlorides															
<u>H25425</u>		<u>11 SW-2</u>		<u>61</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>11/6/12</u>		<u>11/6/12</u>		<u>X</u>		<u>X</u>		<u>X</u>															
<u>12 SW-3</u>		<u>12</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>																	
<u>13 SW-2</u>		<u>13</u>		<u>1</u>		<u>1</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>		<u>X</u>																	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <u>Colleen Bickert</u>		Date: <u>11/6/12</u>		Time: <u>1454</u>		Received By: <u>Chuck Terhune</u>		Date: <u>11/6/12</u>		Time: <u>1454</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>CT</u>		(Initials)		Turnaround Time: <u>Standard</u>		Thermometer ID #13: <u>2460 TAT</u>		Correction Factor -0.6°C: <u>2460 TAT</u>		Bacteria (only) Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>24.6</u>		Corrected Temp. °C: <u>24.6</u>											
Delivered By: (Circle One)		Observed Temp. °C: <u>10.4</u>		Corrected Temp. °C: <u>10.0</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>CT</u>		(Initials)		Turnaround Time: <u>Standard</u>		Thermometer ID #13: <u>2460 TAT</u>		Correction Factor -0.6°C: <u>2460 TAT</u>		Bacteria (only) Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>24.6</u>		Corrected Temp. °C: <u>24.6</u>																			
Sampler - UPS - Bus - Other:		Observed Temp. °C: <u>10.4</u>		Corrected Temp. °C: <u>10.0</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>CT</u>		(Initials)		Turnaround Time: <u>Standard</u>		Thermometer ID #13: <u>2460 TAT</u>		Correction Factor -0.6°C: <u>2460 TAT</u>		Bacteria (only) Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>24.6</u>		Corrected Temp. °C: <u>24.6</u>																			
FOR CARDINAL USE ONLY		Observed Temp. °C: <u>10.4</u>		Corrected Temp. °C: <u>10.0</u>		Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		CHECKED BY: <u>CT</u>		(Initials)		Turnaround Time: <u>Standard</u>		Thermometer ID #13: <u>2460 TAT</u>		Correction Factor -0.6°C: <u>2460 TAT</u>		Bacteria (only) Sample Condition: <u>Intact</u>		Cool: <u>Yes</u>		Intact: <u>Yes</u>		Observed Temp. °C: <u>24.6</u>		Corrected Temp. °C: <u>24.6</u>																			

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Site Remediation Report and Closure Report
Osudo State Com #001 Tank Battery Release
Incident ID# nCH1819250370

Maverick Permian, LLC
August 10, 2023

ATTACHMENT 4

Photographic Documentation

W 270

NW 300

330

N 0

30

NE 60

☀ 341°N (T) ● 32.570282°, -103.390174° ±13ft ▲ 3634ft

 **MAVERICK** NATURAL RESOURCES  **Maverick Permian, LLC**
OSUDO STATE COM #1
UNIT J, SEC. 18-T20S-R36E
1650' FSL & 1650' FEL
LEA COUNTY, NEW MEXICO
API #30-025-25143 

Lease Sign
Tetra Tech

Maverick-Osuda State Com #1
11/16/2022, 08:30:40 MST

NW

N

NE

E

300

330

0

30

60

90

☀ 9°N (T) ● 32.570819°, -103.390533° ±13ft ▲ 3633ft

Completed Excavation
Tetra Tech

Maverick-Osuda State Com #1
11/18/2022, 08:01:10 MST

NE

E

SE

S

30

60

90

120

150

180

☀ 101°E (T) ● 32.570849°, -103.390568° ±13ft ▲ 3633ft



Completed Excavation
Tetra Tech

Maverick-Osuda State Com #1
11/18/2022, 08:01:18 MST



E

SE

S

SW

60

90

120

150

180

210

240

☀ 144°SE (T) ● 32.570885°, -103.390474° ±26ft ▲ 3634ft

Excavation
Tetra Tech

Maverick-Osuda State Com #1
11/17/2022, 08:25:19 MST



Received by OCD: 6/11/2024 1:05:57 PM Page 47 of 58

N NE E SE

330 0 30 60 90 120

☀ 52°NE (T) ● 32.570777°, -103.390522° ±13ft ▲ 3633ft

Completed Excavation
Tetra Tech

Maverick-Osuda State Com #1
11/18/2022, 08:08:53 MST



E

SE

S

SW

60

90

120

150

180

210

240

☀ 150°SE (T) ● 32.570875°, -103.390505° ±72ft ▲ 3634ft

Liner Installation
Tetra Tech

Maverick-Osido State Com #1
11/18/2022, 09:50:06 MST



N

NE

E

SE

0

30

60

90

120

150

☀ 75°E (T) ● 32.570794°, -103.390688° ±108ft ▲ 3634ft

Backfilled Excavations
Tetra Tech

Maverick-Osuda State Com #1
11/18/2022, 14:33:43 MST



W

NW

N

NE

270

300

330

0

30

60

☀ 353°N (T) ● 32.570720°, -103.390436° ±16ft ▲ 3634ft

Backfilled Excavations
Tetra Tech

Maverick-Osuda State Com #1
11/18/2022, 14:34:27 MST

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 352963

QUESTIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	352963
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nCH1819250370
Incident Name	NCH1819250370 OSUDO STATE COM #001 @ 30-025-25143
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-25143] OSUDO STATE COM #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	OSUDO STATE COM #001
Date Release Discovered	07/08/2018
Surface Owner	Private

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Crude Oil Released: 25 BBL Recovered: 0 BBL Lost: 25 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Equipment Failure Tank (Any) Crude Oil Released: 25 BBL Recovered: 3 BBL Lost: 22 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.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

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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, Page 2

Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	352963
	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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 06/11/2024
--	--

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, Page 3

Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	352963
	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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (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	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	8320
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	3670
GRO+DRO	(EPA SW-846 Method 8015M)	3634
BTEX	(EPA SW-846 Method 8021B or 8260B)	36.5
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	11/16/2022
On what date will (or did) the final sampling or liner inspection occur	11/16/2022
On what date will (or was) the remediation complete(d)	11/18/2022
What is the estimated surface area (in square feet) that will be reclaimed	1000
What is the estimated volume (in cubic yards) that will be reclaimed	160
What is the estimated surface area (in square feet) that will be remediated	1000
What is the estimated volume (in cubic yards) that will be remediated	160

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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Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	352963
	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	LEA LAND LANDFILL [fEEM0112342028]
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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetrattech.com Date: 06/11/2024
<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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Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 352963
	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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Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:	331199
	Action Number:	352963
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352967
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/16/2022
What was the (estimated) number of samples that were to be gathered	13
What was the sampling surface area in square feet	1500

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	1000
What was the total volume (cubic yards) remediated	160
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	1000
What was the total volume (in cubic yards) reclaimed	160
Summarize any additional remediation activities not included by answers (above)	In accordance with the NMOCD-Approved remediation work plan and variance requests, A 20-mil HDPE liner was installed in the base of the 4-foot excavation to provide an engineering control.

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: Chuck Terhune Title: Program Manager Email: chuck.terhune@tetratech.com Date: 06/11/2024
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Action 352963

QUESTIONS (continued)

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199
	Action Number: 352963
	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 352963

CONDITIONS

Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:
	331199
	Action Number:
	352963
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	7/22/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	7/22/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	7/22/2024
amaxwell	**It was noted that sample times where not recorded on the laboratory report chain of custody. Future laboratory reports missing samples times may be considered incomplete and void.	7/22/2024