



May 19, 2025

District Supervisor
Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

**Re: Release Characterization and Remediation Work Plan
ConocoPhillips
Haumea State #002H Tank Battery Release
Unit Letter B, Section 36, Township 19 South, and Range 35 East
Lea County, New Mexico
Incident ID nAPP2411866719
Facility ID fAPP2203945340
Landowner: NMSLO**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess and evaluate a release that occurred at the Haumea State #002H Tank Battery (Facility ID fAPP2203945340). The release footprint is located in Public Land Survey System (PLSS) Unit Letter B, Section 36, Township 19 South, and Range 35 East, Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.62320556°, -103.4081944°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico initial C-141 Form, the release was discovered on April 26, 2024. The release was caused by tank overflow at the facility. The release consisted of approximately 375 barrels (bbls) of oil and 375 bbls of produced water, of which approximately 350 bbls of oil and 350 bbls of produced water were recovered during the initial response actions. The release originated within the lined facility and overflowed the berm into the unlined pad and adjacent pasture.

In April 2022, Maverick Permian, LLC acquired the Haumea State #002H Tank Battery facility. However, the NMOCD database does not reflect Maverick as the operator, and instead COG Operating LLC remains listed as the operator of the facility.

At the time of the release, ConocoPhillips's security team was alerted to an incident at the Haumea State #002H Tank Battery facility. ConocoPhillips notified Maverick Permian LLC, who did not respond, prompting ConocoPhillips to address the situation by securing the source, ceasing well operations, and initiating the recovery of the released fluid. ConocoPhillips decided to proceed with retaining the release.

The Initial C-141 Report was submitted to the NMOCD on June 5, 2024, and assigned the Incident ID nAPP2411866719. The initial C-141 is included as Appendix A.

LAND OWNERSHIP

The Site is located on State Trust Lands managed by the New Mexico State Land Office (NMSLO). A review of the NMSLO Land Status Map was completed and the Site is located within active oil and gas lease ID VC12000000, which is listed under FRANKLIN MOUNTAIN ENERGY 3, LLC. A Right of Entry (ROE) permit

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was submitted to the New Mexico State Land Office (NMSLO) before work commenced at the release Site. The ROE permit was executed on July 31, 2024. A copy of the executed ROE permit is included in Appendix B.

SITE CHARACTERIZATION

A site characterization was performed in accordance with 19.15.29.11 New Mexico State Administrative Code (NMAC) and the guidance document Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions (12/01/2023).

As the nearest available water level information is from a well farther than ½-mile away from the Site, ConocoPhillips elected to drill a boring to verify depth to groundwater. An *Application for Permit to Drill* (WD-07) was submitted to the NMOSE, and approval was granted on October 30, 2024. A copy of the approved permit is included in Appendix B.

On November 14, 2024, ConocoPhillips contracted a licensed well drilling subcontractor to drill a groundwater determination borehole (DTW) to 55 feet bgs on the northwest corner of the lease pad. The borehole was temporarily set and screened using 2-inch PVC well materials. No water was present in the well during drilling. Tetra Tech personnel returned to the Site on November 19, 2024, to gauge the temporary well. The water level was measured at 26.50 feet bgs. After gauging, the well screen and casing were removed, and the borehole was plugged in accordance with the approved plugging plan. The borehole coordinates are 32.623583°, -103.408695° and the boring location is indicated in Figure 3. The site characterization data, boring log, and temporary well diagram are included in Appendix C.

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 (groundwater encountered at a depth of less than 50 feet bgs) and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	600 mg/kg
Total TPH	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

2024 ASSESSMENT ACTIVITIES

Tetra Tech performed the initial release assessment activities on behalf of ConocoPhillips. Prior to the assessment activities, a site evaluation was conducted, Tetra Tech personnel observed hydrocarbon staining inside the lined containment of the facility. As the impacted gravel was atop of the liner, a liner inspection could not be performed at this time to determine liner integrity. Outside of the lined facility, on the pad area to the west and in the pasture to the east, staining was observed that was assumed to be related to the subject line release. Due to the liner and gravel inside the containment berm, assessment activities commenced with the outside pad and pasture areas.

Pad Assessment

On August 30, 2024, eight (8) hand auger borings (AH-1 through AH-8) were installed within the release extent to 1.5 feet below ground surface (bgs). Hand auger refusal was encountered on the pad at 1.5 feet bgs. An additional four (4) hand auger borings (AH-9 through AH-12) were installed around the perimeter of the release footprint to 0-1 feet bgs. Photographs of the liner were collected during the initial assessment;

however, saturated gravel was observed on top of the liner. Photographic documentation from the initial assessment activities is included in Appendix D.

Based on a review of the data, horizontal delineation of the release extent was incomplete. Tetra Tech re-mobilized to the Site on September 12, 2024, and installed one (1) hand auger boring (AH-13) to complete horizontal delineation of the release. The initial assessment of sampling locations are presented in Figure 3.

A total of nineteen (19) soil samples were collected during the initial assessment activities and submitted to Cardinal to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Analytical results from the initial assessment activities are summarized in Table 1. The soil analytical results exceeded the 19.15.29 NMAC delineation criteria of 100 mg/kg for total TPH in all of the samples collected from sample locations AH-2, AH-3, and AH-4. Analytical results exceeded the 19.15.29 NMAC delineation criteria of 600 mg/kg for chlorides in sample location AH-11. AH-11 was bound by AH-13. The release extent footprint was successfully delineated horizontally, but not vertically within the release extent.

LINER INSPECTION

In accordance with 19.15.29.11(A)(5)(a) NMAC, notification (C-141L) of a liner inspection at the Haumea State #002H Tank Battery was submitted via the NMOCD portal on October 21, 2024. The liner inspection notification email is included in Appendix B.

Prior to conducting the liner inspection, ConocoPhillips representatives removed the impacted gravel and pressure washed the liner. Photographic documentation following the pressure washing activities are included in Appendix D.

On October 24, 2024, Tetra Tech personnel performed an inspection of the liner within the containment area of the Haumea State #002H Tank Battery. The liner inspection was completed to verify the integrity of the liner. Minor rips, small holes, and tears were observed in the liner. Photographic documentation of the liner inspection is included in Appendix D.

2025 ASSESSMENT ACTIVITIES

On behalf of ConocoPhillips, Tetra Tech conducted additional soil assessment activities at the release Site to complete vertical delineation of the release extent. On February 18, 2025, Tetra Tech personnel provided oversight of the installation a total of seven (7) borings (BH-1 through BH-7) using an air rotary drilling rig.

Borings BH-1 and BH-2 were installed on the pad outside the battery facility berm. Boreholes (BH-3 through BH-7) were installed inside the facility. Due to limited accessibility and safety concerns, the borehole locations were selected to assess the facility. The boring locations are presented in Figure 4. Analytical results are summarized in Table 2. Photographic documentation of the Site conditions during the additional assessment activities is included in Appendix D.

A total of forty-nine (49) soil samples were collected and sent to Cardinal Laboratories to be analyzed for chloride via Standard Method 4500Cl-B, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix E.

Pad Area

Borings BH-1 and BH-2 were installed on the pad. Referring to Table 2, The pad area (west) from boring BH-1 indicated exceedances of the most stringent TPH RRAL (100 mg/kg) at 5-6 ft bgs. Boring BH-2 (also outside the battery on the west side) indicated a TPH RRAL exceedance at 0-1 ft bgs only.

Tank Battery

Boreholes (BH-3 through BH-7) were installed at the tank battery to evaluate the soil underneath the liner. The results are summarized in Table 2. Vertical delineation of the release was achieved following the additional assessment. There were no exceedances for BTEX in any of the analytical results from the drilled borings. The borehole results are summarized below.

- BH-3 had an exceedance of TPH at 0-1 ft bgs of 1,132 mg/kg, as well as a chloride exceedance at 14-15 ft bgs. This chloride result was marginally over Site RRALs at 608 mg/kg.
- BH-4 analytical results showed only TPH exceedance in the area. The TPH RRAL exceeded the RRAL at 0-1 ft bgs of 1,636 mg/kg just below the liner. Depth Intervals from 1 to 8' bgs were below reclamation requirements, however, slightly spiked to 198 mg/kg at 9-10' bgs.
- BH-5 exceeded the RRAL for TPH at 0-1 ft bgs and also indicated exceedances for chlorides at 5-6 ft bgs (704 mg/kg), 7-8 ft bgs (1060 mg/kg) and 14-15 ft bgs (640 mg/kg). However, the chloride detection at 14-15 ft bgs was only slightly above Site RRALs at 640 mg/kg.
- BH-6 analytical results were all below the Site RRALs.

SITE HAZARDS AND REMEDIATION SAFETY CONSIDERATIONS

Significant site safety hazards exist at the Site, which potentially impact the feasibility of safely completing the excavation of impacted soils inside the battery facility area. The release occurred inside the tank battery and affected areas outside the battery on pad and in pasture. The facility contains five (5) tanks, electrical lines, a separator, two heater treaters, and multiple surface steel lines.

A main concern for the site is energized electrical lines being present in the remediation areas, as the presence creates a major safety hazard for field personnel. ConocoPhillips' safety protocols will be followed, and safety concerns will be mitigated as attainable, however as previously noted this facility is not being operated by ConocoPhillips. Additional caution must be exercised for areas in the vicinity of tanks and piping, and tank foundations cannot be undermined by deep excavations.

REMEDIATION WORK PLAN

Based on the collected analytical results, and in consideration of the existing Site infrastructure, soils, and associated safety hazards discussed in the previous section, ConocoPhillips proposes to remove the impacted material as indicated on Figure 5. Portions of the release footprint outside the facility (on pad areas) in the vicinity of AH-2 and BH-1 will be excavated to an approximate depth of 6.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs.

In the area of AH-3 the release footprint will be excavated to an approximate depth of 3 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs. The release footprint around AH-4 and BH-2 will be excavated to an approximate depth of 1.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs. In the area of AH-11, the release footprint will be excavated to an approximate depth of 1.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs.

The release footprint inside the facility in the area of BH-3 will be excavated to an approximate depth of 1.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs. The areas of BH-4, BH-5 and BH-7 will be excavated to an approximate depth of 1.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation are below the site RRALs.

Heavy equipment (backhoe and trackhoe) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 4 feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines will be removed to the maximum extent practicable using non-aggressive excavation methods. The impacted soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. The responsible party will notify the OCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using a Notification of Sampling (C-141N) application.

VARIANCE REQUEST

Based on the sporadic concentrations of chloride and TPH in the subsurface soils, ConocoPhillips requests a variance from NMOCD for selected analytical results in the areas of BH-3, BH-4 and BH-5.

This will only apply to portions of the extent inside the facility berm, and for areas that are not immediately beneath the liner. The variance is requested to leave the remaining concentrations of chlorides and TPH in place, based on the concentrations detected in the analytical results, and for safety concerns for onsite workers.

The variance is requested for the subsurface in the areas of BH-3, BH-4 and BH-5.

- The area of BH-3 (beneath the liner) will be excavated to remove the impacted soils at 0-1 ft bgs exceeding Site RRALs for TPH (100 mg/kg). At BH-3, the analytical results from the interval of 14-15 ft bgs slightly exceeds the Site RRAL for chloride (600 mg/kg) at 608 mg/kg. The analytical results from intervals from 2 ft to 10 ft are below site RRALs for chloride, with the highest concentration of 432 mg/kg. Additionally, the results from the interval at 19-20 ft bgs meets reclamation standards with a concentration of 160 mg/kg. The exceedance at 14-15 ft bgs is isolated, and only slightly exceeds the action level by 8 mg/kg.
- The area of BH-4 (beneath the liner) will be excavated to remove the impacted soils at 0-1 ft bgs exceeding Site RRALs for TPH (1,636 mg/kg). At BH-4, the analytical results from the interval of 9-10 ft bgs slightly exceeds the RRAL for TPH at 198 mg/kg. TPH was detected at less than ten from stratigraphically higher intervals from 3 ft to 8 ft bgs. Although there is shallow groundwater, there is approximately 15 ft of vertical distance between this interval and the established groundwater depth.
- The area of BH-5 (beneath the liner) will be excavated to remove the impacted soils at 0-1 ft bgs exceeding Site RRALs for TPH. A variance is requested for BH-5 for the exceedances of chloride at 5-6 ft bgs (704 mg/kg), 7-8 ft bgs (1,060 mg/kg) and 14-15 ft bgs (640 mg/kg). The soil intervals from 2 ft to 4 ft bgs did not have exceedances of chloride, the soil interval from 9-10 ft bgs did not have exceedances of chloride and the basal soil interval beneath (19-20 ft bgs) was below the reclamation requirements.

The risks of conducting an excavation to 10-15 ft bgs within an active battery amongst tanks, production equipment and energized lines would be far greater than that concentration remaining in place or to human health, as it appears it is unrelated to the subject release and there are unimpacted intervals stratigraphically above these intervals.

Additionally, according to OSHA regulations and ConocoPhillips safety protocol, excavation areas which are greater than 4 feet in depth must be protected from cave-in by sloping or benching. As this is an active facility, conducting the remediation to meet safety requirements is extremely difficult due to limited space and access to equipment. As noted, this facility is not being operated by ConocoPhillips which creates additional complications to conduct extensive remediation. However, ConocoPhillips will remove the impacted soil to the maximum extent practicable as described above.

Release Characterization and Remediation Work Plan
May 19, 2025

ConocoPhillips

ALTERNATIVE CONFIRMATION SAMPLING PLAN

Confirmation floor and sidewall samples will be collected every 400 square feet for verification of remedial activities, and analyzed for TPH, BTEX, and chloride. Confirmation sample locations are depicted in Figure 6. Fourteen (14) confirmation floor samples and twenty-two (22) confirmation sidewall samples will be collected for verification of remedial activities.

SITE RECLAMATION

This release is within an active pad area; therefore, reclamation (reseeding) activities are not proposed within this work plan, as the release area is within an area of multiple subsurface lines. However, once acceptable confirmation sample results are received, the excavation will be backfilled with clean material that is non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg, as analyzed by EPA Method 300.0 or Method 4500.

Additionally, the liner in the areas of BH-3, BH-4, BH-5 and BH-7 will be replaced. Any small rips, holes, and tears previously documented at the Site will be patched and/or replaced during remedial activities.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days of plan approval. Upon completion of the proposed work, a final report detailing the remediation and reclamation activities and the results of the confirmation sampling will be submitted to NMOCD.

If you have any questions concerning the soil assessment or the proposed remediation activities for the Site, please call me at (512) 596-8201.

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Ike Tavarez, RMR – ConocoPhillips

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Site Location/Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Approximate Release Extent and Additional Site Assessment
- Figure 5 – Proposed Remediation Extent
- Figure 6 – Confirmation Sampling Plan

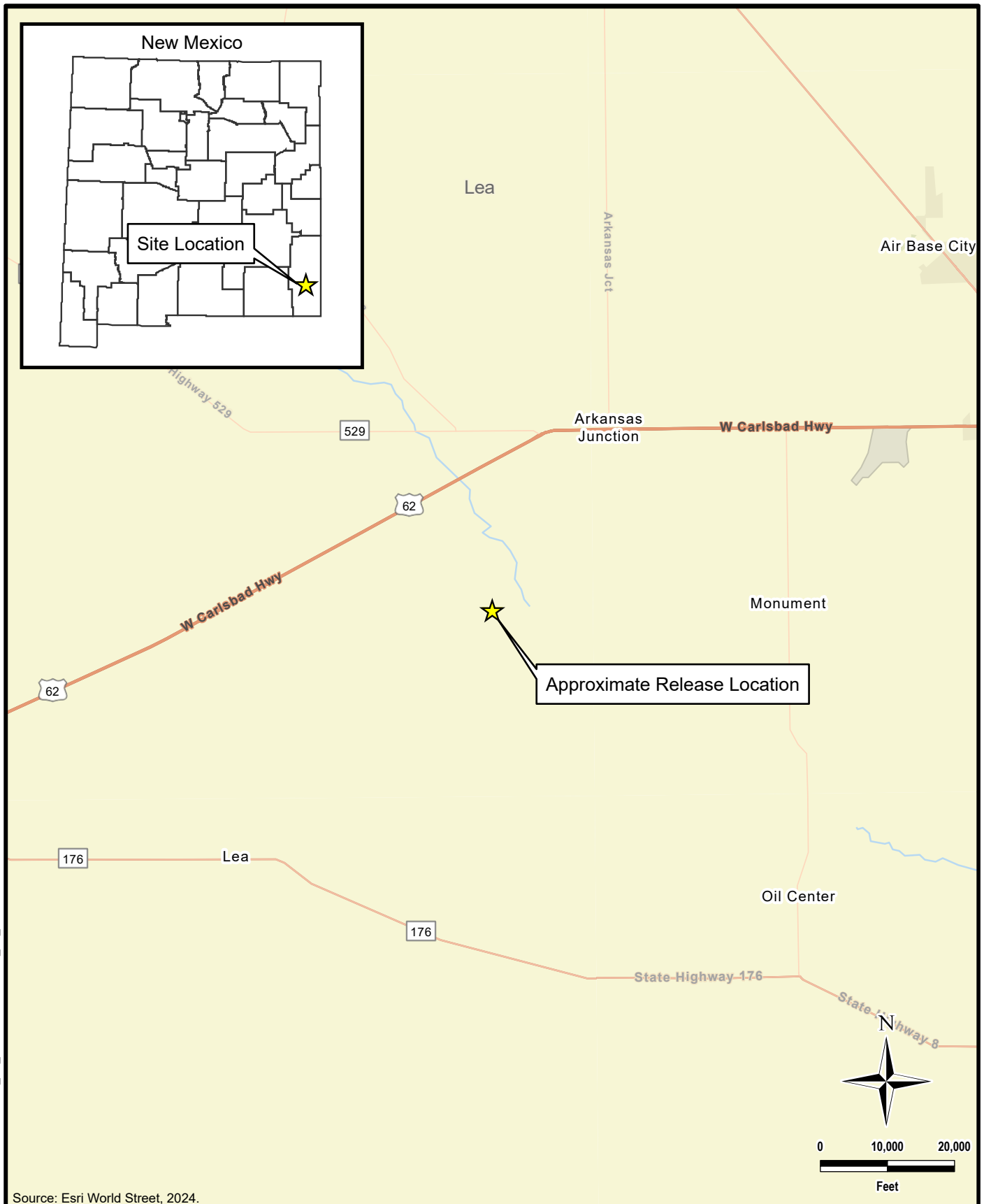
Tables:

- Table 1 – Summary of Analytical Results – 2024 Soil Assessment
- Table 2 - Summary of Analytical Results – 2025 Soil Assessment

Appendices:

- Appendix A – C-141 Forms
- Appendix B – Regulatory Correspondence
- Appendix C – Site Characterization Data
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Analytical Results

FIGURES



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CONOCOPHILLIPS

NAPP2411866719
(32.62320556°, -103.4081944°)
LEA COUNTY, NEW MEXICO

**HAUMEA STATE #002H BATTERY RELEASE
OVERVIEW MAP**

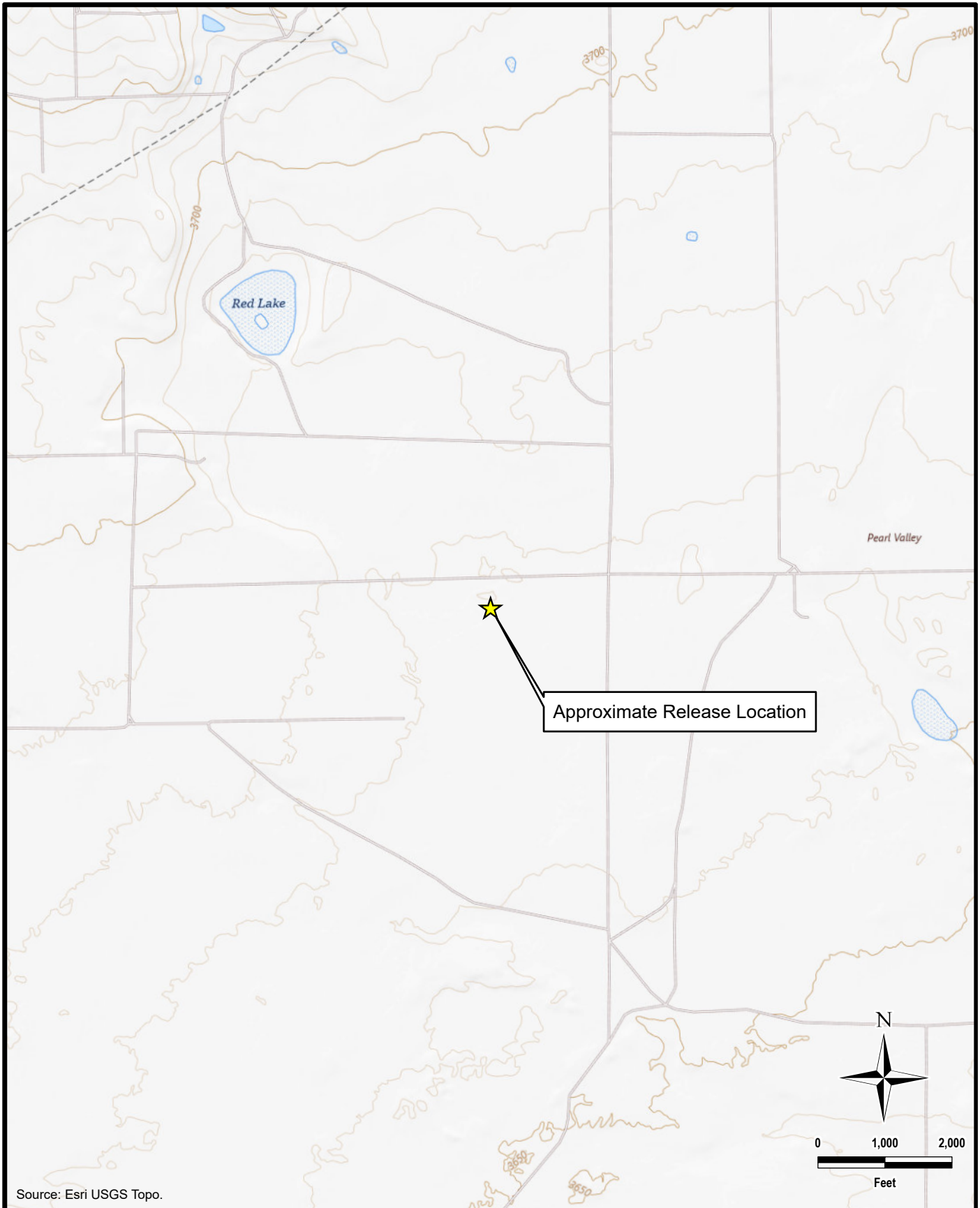
PROJECT NO.: 212C-MD-03585

DATE: SEPTEMBER 10, 2024

DESIGNED BY: LMV

Figure No.

1



Source: Esri USGS Topo.



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**HAUMEA STATE #002H BATTERY RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03585

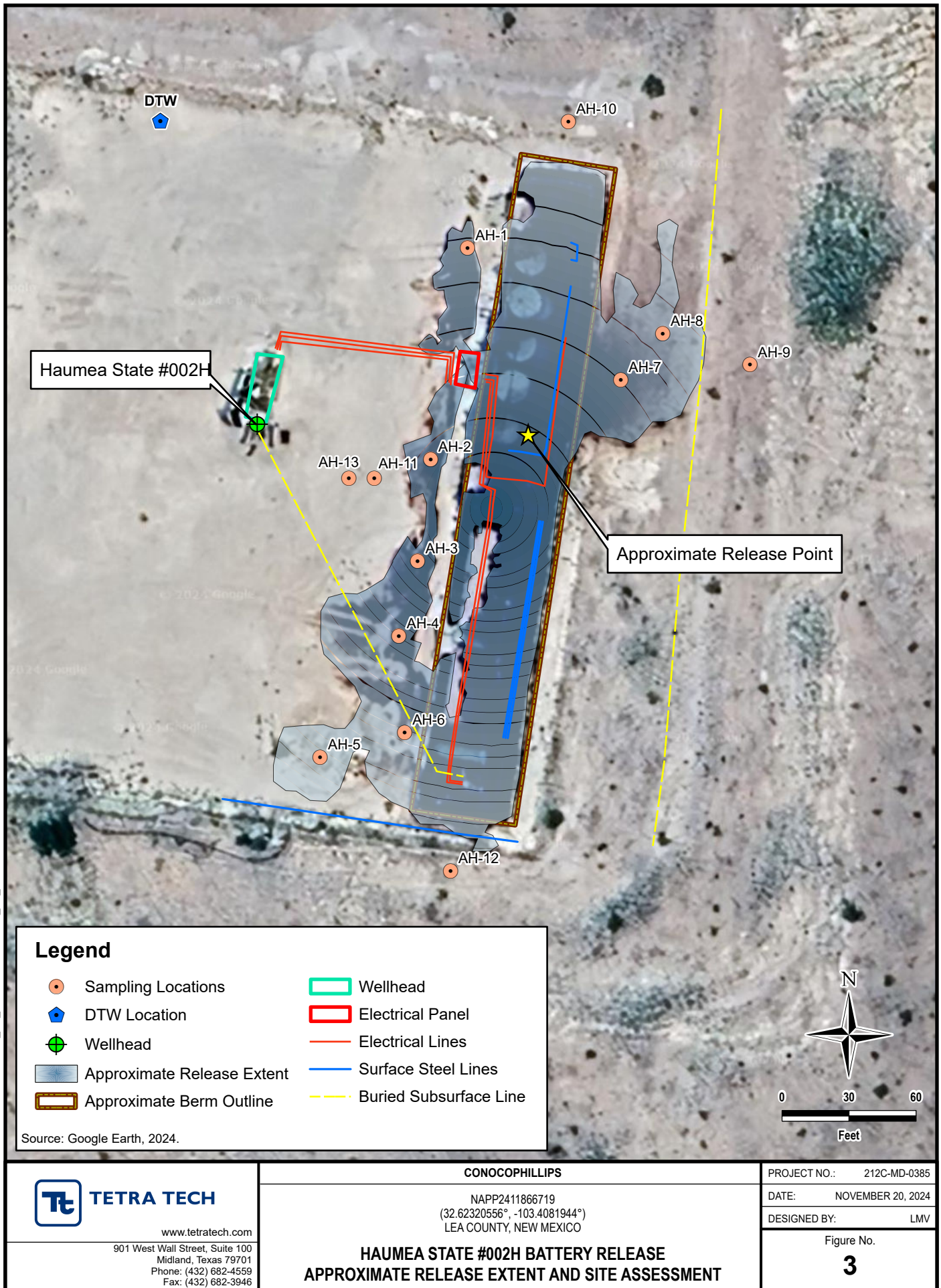
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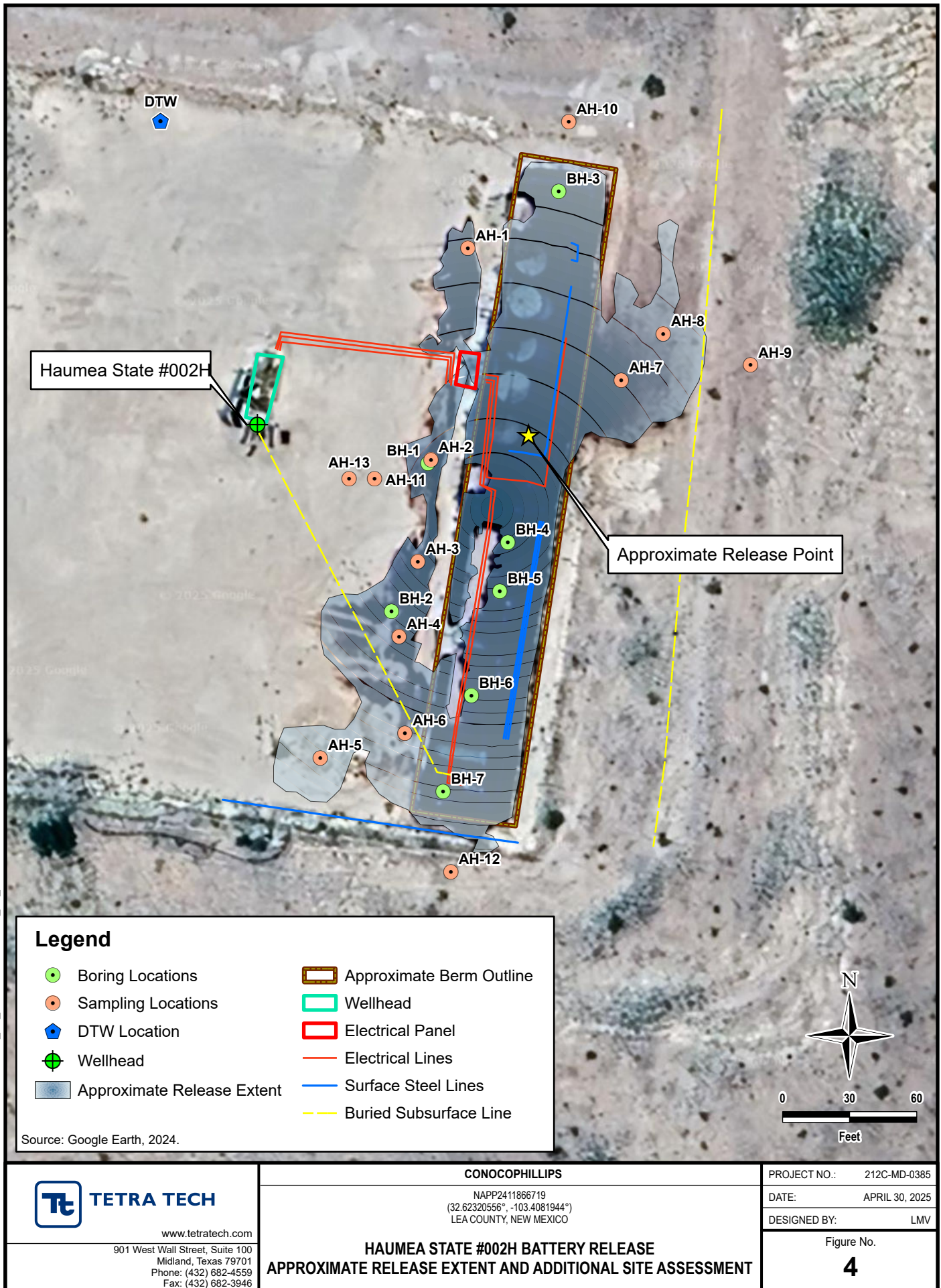
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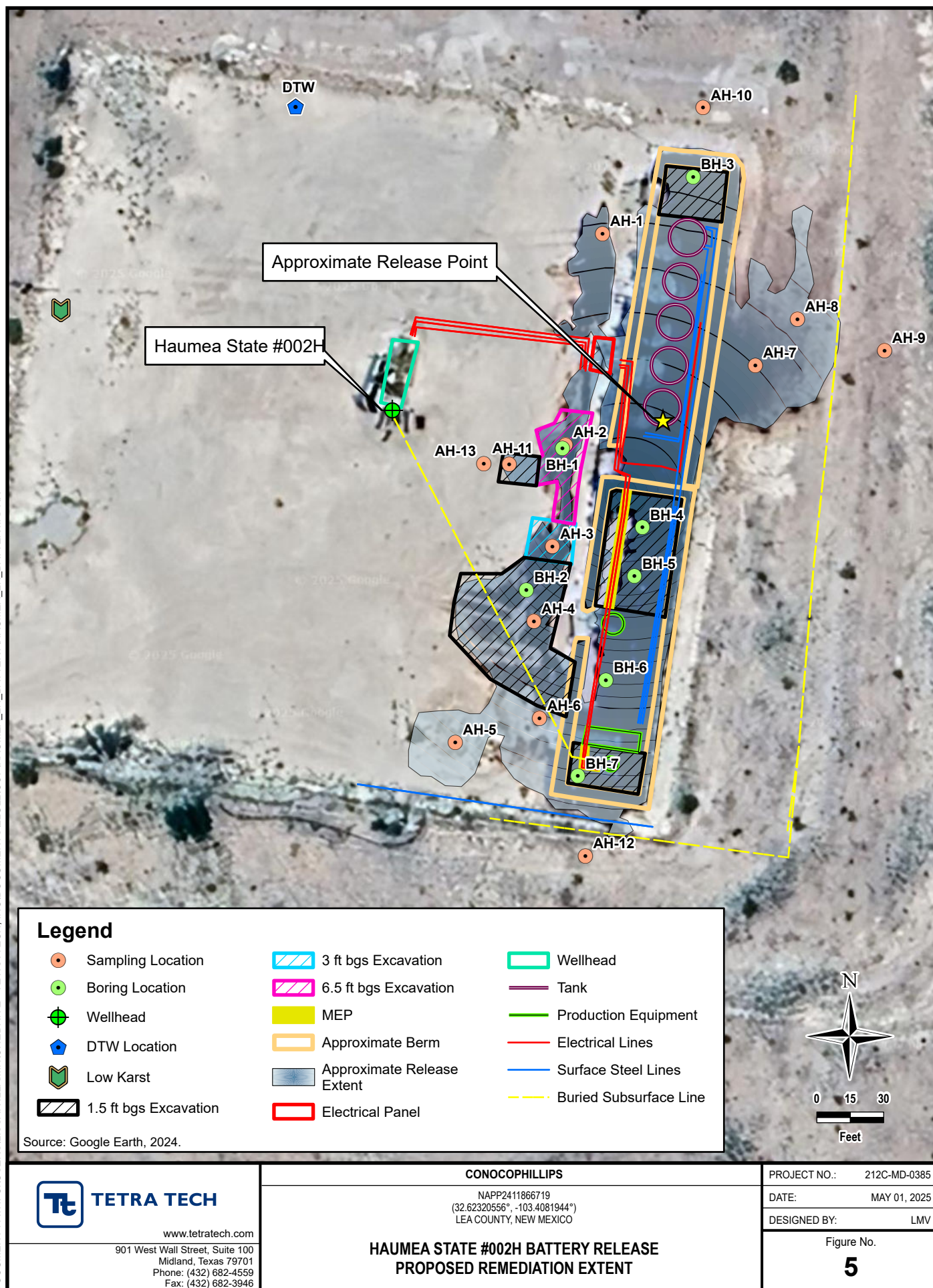
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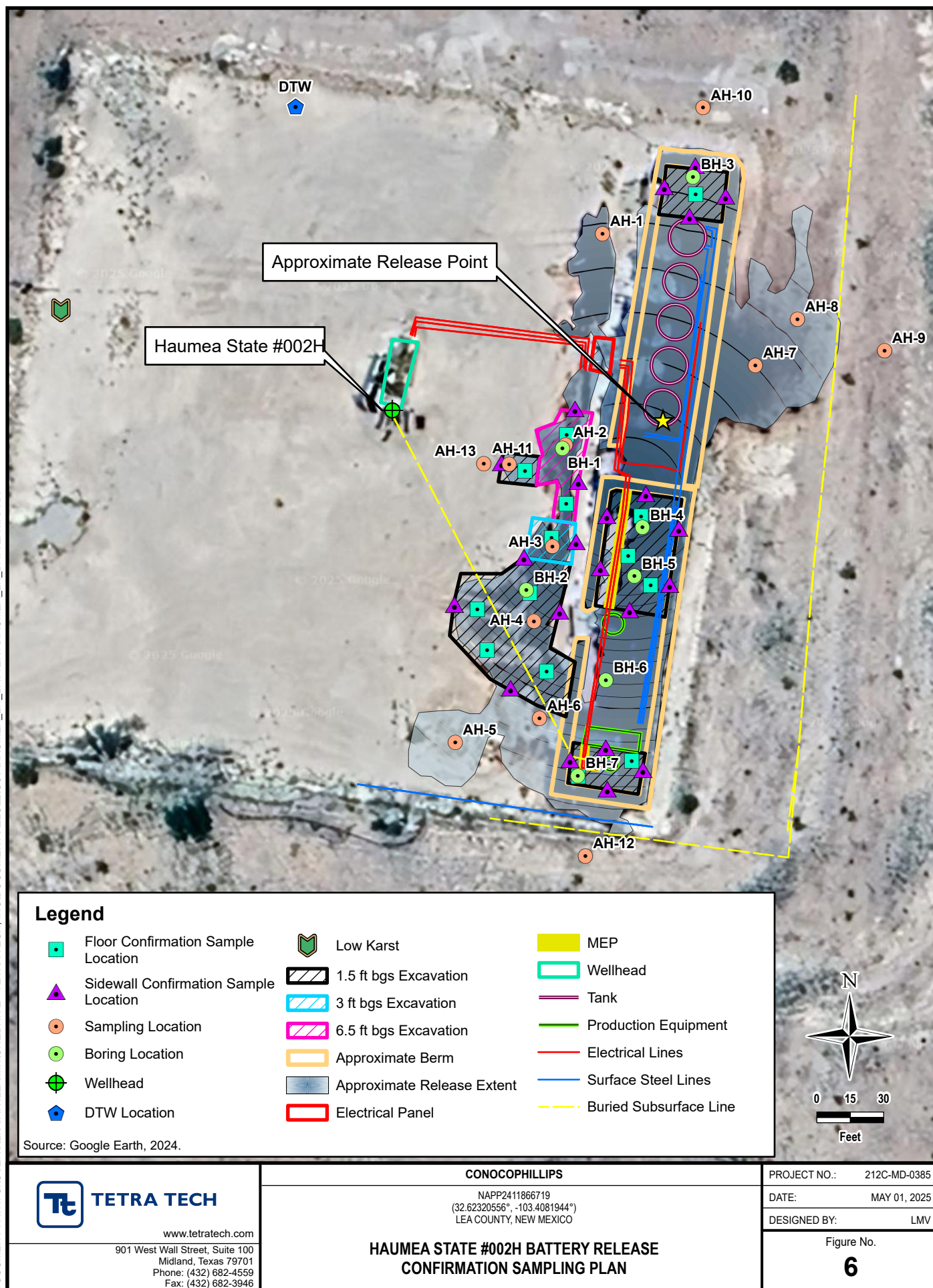
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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
2024 SOIL ASSESSMENT- NAPP2411866719
CONOCOPHILLIPS
HAUMEA STATE #002H BATTERY
LEA COUNTY, NEW MEXICO

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (< 50 ft):					Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		100 mg/kg	
			Chlorides	PID	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
			ft. bgs		ppm		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
AH-1	8/30/2024	0-1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		48.1		<10.0		48.1	
		1-1.5			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-2	8/30/2024	0-1			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		113		32.0		145	
		1-1.5			176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		142		51.2		193.2	
AH-3	8/30/2024	0-1			224		<0.050		<0.050		1.11		3.95	GC-NC1	5.07	GC-NC1	273		14,300		3,160		17,733	
		1-1.5			80.0		<0.050		<0.050		0.056		0.226	GC-NC1	<0.300	GC-NC1	10.2		783		170		963.2	
AH-4	8/30/2024	0-1			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		560		138		560	
AH-5	8/30/2024	0-1			320		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-1.5			160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-6	8/30/2024	0-1			192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		25.3		15.4		40.7	
AH-7	8/30/2024	0-1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		12.3		<10.0		12.3	
		1-1.5			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		20.4		<10.0		20.4	
AH-8	8/30/2024	0-1			48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		1-1.5			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-9	8/30/2024	0-1			32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-10	8/30/2024	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-11	8/30/2024	0-1			1,250		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-12	8/30/2024	0-1			16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-13	9/12/2024	0-1			80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet
bgs Below ground surface
mg/kg Milligrams per kilogram
TPH Total Petroleum Hydrocarbons
GRO Gasoline range organics
DRO Diesel range organics
1 Method SM4500Cl-B
2 Method 8021B
3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2411866719
CONOCOPHILLIPS
HAUMEA STATE #002H BATTERY RELEASE
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):					Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
			Chlorides	PID	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
			ft. bgs	ppm	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	Q
BH-1	2/18/2025	0-1	-		560		<0.050		<0.050		<0.050		<0.150		<0.300		<50.0		9,580		3,180		12,760	
		2-3	-		192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		81.6		<10.0		81.6	
		3-4	-		192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		46.8		<10.0		46.8	
		5-6	-		240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		212		32.1		244.1	
		7-8	-		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		9-10	902		304		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		14-15	771		240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		19-20	363		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-2	2/18/2025	0-1	-		336		<0.050		0.339		3.17		8.49		12.0		169		10,400		2,160		12,729	
		2-3	-		32.0		<0.050	QR-03	<0.050		<0.050		<0.150		<0.300		<10.0		67.5		14.9		82.4	
		3-4	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	136		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		9-10	263		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		16.7		<10.0		16.7	
BH-3	2/18/2025	14-15	370		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		0-1	-		256		<0.050		<0.050		0.110		<0.150		<0.300		<10.0		957		175		1132	
		2-3	-		272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		32.9		<10.0		32.9	
		3-4	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6	-		112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	-		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-4	2/18/2025	9-10	840		432		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		14-15	1,139		608		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		19-20	352		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		0-1	-		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		1,280		356		1,636	
		2-3	-		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		18.8		13.9		32.7	
		3-4	-		112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-5	2/18/2025	5-6	-		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	-		192		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		9-10	417		64.0		<0.050		<0.050		<0.050		<0.050		<0.300		<10.0		156		42.0		198.0	
		0-1	-		112		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		378		123		501	
		2-3	-		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	-		400		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-6	2/18/2025	5-6	-		704		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	-		1,060		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		9-10	1,300		368		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		10.1		<10.0		10.1	
		14-15	1,100		640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		19-20	381		272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		0-1	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
BH-6	2/18/2025	2-3	-		336		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	-		176		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6	-		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		9-10	249		80.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		19-20					<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

TABLE 2
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2411866719
CONOCOPHILLIPS
HAUMEA STATE #002H BATTERY RELEASE
LEA COUNTY, NM

19.15.29.12 NMAC Closure Criteria for Soils Impacted by a Release (≤ 50 ft):					Chlorides ¹		BTEX ²										TPH ³							
Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		< 600 mg/kg		< 10 mg/kg		Toluene		Ethylbenzene		Total Xylenes		< 50 mg/kg		GRO		DRO		EXT DRO		< 100 mg/kg	
			Chlorides	PID	Chloride		Benzene								Total BTEX								Total TPH (GRO+DRO+EXT DRO)	
		ft. bgs	ppm	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	Q	mg/kg
BH-7	2/18/2025	0-1	-		96.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		436		114		550	
		2-3	-		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		5-6	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		7-8	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		72.8		14		86.8	
		9-10	171		48.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 Method 8021B

3 Method 8015M

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

QUALIFIERS:

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

APPENDIX A C-141 Forms

District I
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District II
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District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<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 type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: _____	Title: _____
Signature: <u>Patricia Zapanta</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Spill Calculation - On-Pad Surface Pool Spill									
<div> <div> <div>Received by</div> <div>OCD: 5/19/2025 2:30:35 PM</div> </div> <div> <div>Released to Imaging: 5/20/2025 7:30:20 AM</div> <div></div> </div> </div>									
Convert irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Average Depth (in.)	Area (sq. ft.)	Estimated volume of each pool area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture (%.)	Total Estimated Volume of Spilled Oil (bbl.)	Page 22 of 181 Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	143	35	8.0	5005.00	237.57	237.57	10%	23.76	213.81
Rectangle B	116	35	8.0	4060.00	192.71	192.71		19.27	173.44
Rectangle C	84	54	2.0	4536.00	53.83	53.83		5.38	48.44
Rectangle D	40	46	2.0	1840.00	21.83	21.83		2.18	19.65
Rectangle E	100	37	0.0	3700.00	0.22	0.22		0.02	0.20
Rectangle F				0.00	0.00	0.00		0.00	0.00
Rectangle G				0.00	0.00	0.00		0.00	0.00
Rectangle H				0.00	0.00	0.00		0.00	0.00
Rectangle I				0.00	0.00	0.00		0.00	0.00
Rectangle J				0.00	0.00	0.00		0.00	0.00
Total Volume Released to Lined Secondary Containment:						506.1667		50.6167	455.5501

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District IV
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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 351029

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411866719
Incident Name	NAPP2411866719 HAUMEA STATE 2H @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203945340] Haumea St 2H Battery

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Haumea State 2H
Date Release Discovered	04/26/2024
Surface Owner	State

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: Other Other (Specify) Crude Oil Released: 375 BBL Recovered: 350 BBL Lost: 25 BBL.
Produced Water Released (bbls) Details	Cause: Other Other (Specify) Produced Water Released: 375 BBL Recovered: 350 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	In April 2022, Maverick Permian, LLC acquired the Haumea State 2H, although the NMOCD database does not reflect them as the operator. Following the incident, Maverick Permian, LLC did not respond, prompting ConocoPhillips, being a prudent operator, took action. ConocoPhillips addressed the situation by securing the source, ceasing well operations, and initiating the recovery of the released fluid.

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QUESTIONS, Page 2

Action 351029

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 06/05/2024
----------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 351029

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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	No
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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CONDITIONS

Action 351029

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 351029
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	6/6/2024

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: _____ Title: _____

Signature:  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: _____ Title: _____

Signature: _____  _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B

Regulatory Correspondence

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

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

Trn Nbr: 769728
File Nbr: L 15793

Oct. 30, 2024

CHRISTIAN LLULL
TETRA TECH
8911 N CAPITAL OF TX HWY #2310
AUSTIN, TX 78759

Greetings:

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

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

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

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

Sincerely,

Azucena Rivera
(575) 622-6521

Enclosure

explore



NEW MEXICO OFFICE OF THE STATE ENGINEER

WR-07 APPLICATION FOR PERMIT TO DRILL

A WELL WITH NO WATER RIGHT

(check applicable boxes):

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

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input type="checkbox"/> Other(Describe):
<input checked="" type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	
A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.		
*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.		
<input type="checkbox"/> Check here if the borehole is anything other than vertical (directional boring or angle boring) and include a schematic of your design.		
<input checked="" type="checkbox"/> Temporary Request - Requested Start Date: 9/30/2024		Requested End Date: 9/30/2025
Plugging Plan of Operations Submitted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

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

1. APPLICANT(S)

Name: Tetra Tech on behalf of ConocoPhillips	Name:
Contact or Agent: check here if Agent <input type="checkbox"/> Christian Llull	Contact or Agent: check here if Agent <input type="checkbox"/>
Mailing Address: 8911 N Capital of Texas Hwy #2310	Mailing Address:
City: Austin	City:
State: Zip Code: Texas 78759	State: Zip Code:
Phone: (512) 565-0190 <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell Phone (Work):	Phone: <input type="checkbox"/> Home <input type="checkbox"/> Cell Phone (Work):
E-mail (optional): christian.llull@tetrattech.com	E-mail (optional):

OSE DII ROSWELL NM
25 OCT '24 PM 1:19
OSE DII ROSWELL NM
OCT 8 2024 PM 1:58

FOR OSE INTERNAL USE

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

File No.: L-15793	Trn. No.: 769728	Receipt No.: 2-47356
Trans Description (optional): MON		
Sub-Basin: L	PCW/LOG Due Date: 10/30/25	

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

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84).

District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

- ☐ NM State Plane (NAD83) (Feet) ☐ UTM (NAD83) (Meters) ☒ Lat/Long (WGS84) (to the nearest 1/10th of second)
- ☐ NM West Zone ☐ Zone 12N
- ☐ NM East Zone ☐ Zone 13N
- ☐ NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	Well Depth in feet	Casing Diameter (OD)
L-15793 POD1 Haumea DTW#1	32.623583°	-103.408695	B-36-19S-35E	55	2 in.

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)

Additional well descriptions are attached: ☐ Yes ☒ No If yes, how many _____

Other description relating well to common landmarks, streets, or other:

Well is on land owned by: State Lands managed by the New Mexico State Land Office

Well Information: **NOTE:** If casings telescope or involve nested casing, please provide diagram. Attached? ☐ Yes ☒ No

Approximate depth to water (feet): 55

Driller Name: Scott Scarborough

Driller License Number: WD1188

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

Drilling temporary monitoring well to determine depth to groundwater.

This DTW will be installed in an active pad on state lands managed by the New Mexico State Land Office (NMSLO), ConocoPhillips has received a Right of Entry Permit by the NMSLO for access (attached).

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25 OCT '24 PM1:19

OSE DII ROSWELL NM
OCT 8 2024 PM1:58

FOR OSE INTERNAL USE

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

File No.: L-15793 POD1

Trn No.: 769728

Page 2 of 3

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

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

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

ACKNOWLEDGEMENT

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

CHRISTIAN LLULL

Print Name(s)

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

Applicant Signature

Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:

☒ approved

☐ partially approved

☐ denied

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

Witness my hand and seal this 30th day of October 20 24, for the State Engineer,

Elizabeth K. Anderson, P.E.

State Engineer

By:
Signature

K. Pandel

Kashyap Parekh
Print

Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

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

File No.:

L-15793 POD1

Trn No.:

769728

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1B Depth of the well shall not exceed the thickness of the Ogallala formation.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: L-15793 POD1

File Number: L 15793

Trn Number: 769728

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NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Trn Desc: L-15793 POD1

File Number: L 15793

Trn Number: 769728

page: 2

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

LOG The Point of Diversion L 15793 POD1 must be completed and the Well Log filed on or before 10/30/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 10/08/2024	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 30 day of Oct A.D., 2024

Elizabeth K. Anderson, P.E., State Engineer

By: K. Parekh

KASHYAP PAREKH

Trn Desc: L-15793 POD1

File Number: L 15793

Trn Number: 769728

page: 3

MICHELLE LUJAN GRISHAM
GOVERNOR



ELIZABETH K. ANDERSON, P.E.
STATE ENGINEER

DISTRICT 2 OFFICE

State of New Mexico
Office of the State Engineer

October 28, 2024

Tetra Tech Inc. on behalf of Conoco Phillips
8911 N. Capital of Texas Hwy # 2310
Austin, TX 79759

RE: Well Plugging Plan of Operations for L-15793-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Parekh", is written over a horizontal line.

Kashyap Parekh
Water Resources Manager I

1900 WEST SECOND STREET, ROSWELL, NM 88201
(575) 622/6521 FAX (575) 623-8559

WWW.OSE.STATE.NM.GOV



Office of the State Engineer State of New Mexico

DISTRICT 2 OFFICE

1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623- 8559

Applicant has identified wells, listed below, to be plugged. John Scarborough Drilling Inc. (WD-1188) will perform the plugging.

Permittee: Tetra Tech Inc. co. behalf of Conoco Phillips
NMOSE Permit Number: L-15793-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
L-15793-POD1	2.0	55.0	Unknown	32.623583°	103.4086°

Specific Plugging Conditions of Approval for Well located in Lea County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Theoretical volume of sealant required for abandonment of the 2.0 inch diameter (I.D.) casing is approximately 8.97 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 102.0 feet below ground surface (b.g.s.).
3. The cement-bentonite slurry (bentonite powder) shall be mixed using a maximum of 5.2 gallons water per 94-lb sack of Type I/II Portland cement **PLUS** 0.65 gallons per 1% increase in bentonite up to a maximum 6% bentonite by dry weight ratio.
4. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

5. Placement of the sealant within the wells shall be by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column.
6. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.
7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.
12. The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 28th day of October 2024

Elizabeth K. Anderson, P.E. State Engineer

By: K. Parekh

Kashyap Parekh
Water Resources Manager I





WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☐ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: L-15793-POP

Name of well owner: Tetra Tech Inc. on Behalf of ConocoPhillips

Mailing address: 8911 N Capital of Texas Hwy #2310

County: _____

City: Austin

State: Texas

Zip code: 78759

Phone number: 512-565-0190

E-mail: christian.llull@tetrattech.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: John Scarborough Drilling Inc.

New Mexico Well Driller License No.: WD1188

Expiration Date: 3/31/2026

IV. WELL INFORMATION: ☐ Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32.623583° deg, -103.40869 min, _____ sec
Longitude: _____ deg, _____ min, _____ sec, NAD 83

2) Reason(s) for plugging well(s):

temporary to determine depth to groundwater

3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? UNK If yes, provide additional detail, including analytical results and/or laboratory report(s): UNKNOWN

5) Static water level: UNK feet below land surface / feet above land surface (circle one)

6) Depth of the well: 55 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: Sch. 40 PVC
- 9) The well was constructed with:
☐ an open-hole production interval, state the open interval: _____
☒ a well screen or perforated pipe, state the screened interval(s): 55
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA
- 11) Was the well built with surface casing? NA If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? NA If yes, please describe:
 Temporary well
- 12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: ☐ If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Tremie Type 1 Cement-Bentonite Slurry from bottom of boring to ground level.

- 2) Will well head be cut-off below land surface after plugging? NA Temporary

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 8.97
- 4) Type of Cement proposed: Type 1 Cement-Bentonite
- 5) Proposed cement grout mix: 5 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
X mixed on site

OSE DII ROSWELL NM
25 OCT '24 PM1:17

OSE DII ROSWELL NM
OCT 8 2024 PM1:58

- 7) Grout additives requested, and percent by dry weight relative to cement:

NA

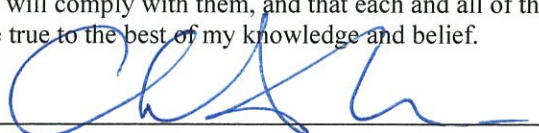
- 8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, CHRISTIAN LULL, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.



Signature of Applicant

10/21/24

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 28th day of October, 2024



Elizabeth K. Anderson P.E.

OSE DIX ROSWELL NM
25 OCT '24 PM1:18

., New Mexico State Engineer

By: K. Parekh
Kashyap Parekh

Water Resources Manager I

WD-08 Well Plugging Plan
Version: March 07, 2022
Page 3 of 5

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			0
Bottom of proposed interval of grout placement (ft bgl)			2
Theoretical volume of grout required per interval (gallons)			8.97
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			5
Mixed on-site or batch-mixed and delivered?			on-site
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			

OSE DII ROSWELL NM
25 OCT '24 PM1:18

OSE DII ROSWELL NM
OCT 8 2024 PM1:58

WD-08 Well Plugging Plan
Version: March 07, 2022 Page
4 of 5

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

OSE DII ROSWELL NM
25 OCT '24 PM1:18

OSE DII ROSWELL NM
OCT 8 2024 PM1:58

From: [Walker, Crystal, EMNRD](#)
To: [Llull, Christian](#); [Abbott, Sam](#)
Cc: [Chavira, Lisbeth](#); [Walker, Crystal, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)
Date: Thursday, October 24, 2024 3:28:41 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

You don't often get email from crystal.walker@emnrd.nm.gov. [Learn why this is important](#)

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As per your request for an extension, due to having received the State Land Trust ROE Permit on August 5, 2024 and submitting a notification for liner inspection for 10/21/2024 with a previous extension of 10/23/2024, which was yesterday, an extension of 30 days, is approved. The new due date is November 23, 2024

OSE Points of Diversions located less than a ½ mile from location indicate that depth to water is less than 25' and the site is also within 1000' of a wetland. Both factors may indicate that remediation will most likely meet the most stringent standards.

Submit a complete remediation plan or closure report by 11/23/2024.

Thank you,
Crystal

From: Llull, Christian <christian.llull@tetrattech.com>
Sent: Thursday, October 24, 2024 11:46 AM
To: Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>; Abbott, Sam <Sam.Abbott@tetrattech.com>
Cc: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: RE: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)

Crystal, we received the ROE on August 5, 2024, however the document is dated July 30, 2024. It is attached.

Christian

From: Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>
Sent: Thursday, October 24, 2024 12:35 PM
To: Abbott, Sam <sam.abbott@tetrattech.com>
Cc: Llull, Christian <christian.llull@tetrattech.com>; Chavira, Lisbeth <lisbeth.chavira@tetrattech.com>; Walker, Crystal, EMNRD <Crystal.Walker@emnrd.nm.gov>

Subject: RE: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)

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Good morning,

I am looking into your extension request.

Can you please provide the date when the ROE permit was received from SLO?

Thank you,
Crystal

From: Abbott, Sam <Sam.Abbott@tetrattech.com>
Sent: Thursday, October 24, 2024 8:02 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>; Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)

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To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting an additional 90-day extension (until January 1, 2025) to complete assessment and reporting for the Haumea State #002H Release (NAPP2411866719).

The Initial C-141 was submitted via the OCD portal system on June 5, 2024.
According to the NMOCD C-141, the date of the release was April 26, 2024.

An initial extension request was made on July 25, 2024 and approved by the NMOCD on July 30, 2024 for a due date of October 23, 2024. At the time of the initial extension request, ConocoPhillips had submitted a ROE permit to the NMSLO and was waiting for approval of the ROE. The ROE permit has since been received from the SLO.

After completing the site characterization, Tetra Tech and ConocoPhillips identified the need for a depth-to-water boring. Tetra Tech has submitted a OSE permit application on behalf of ConocoPhillips to install the boring, and is waiting for approval. As such, ConocoPhillips is planning to complete characterization and assessment activities once the OSE permits have been received.

In the meantime, Tetra Tech personnel will be onsite tomorrow, October 24, 2024, to complete a

liner inspection in the lined facility.

Therefore, additional time is required to perform the following items:

- Coordination with the OSE.
- Assessment sampling outside of the lined facility and installation of the depth-to-water boring.
- Completion of the site characterization and preparation of the report for OCD review.

Once the assessment activities are completed and collected sampling data is tabulated and evaluated, a report will be submitted to the OCD.

Thank you in advance.

Samantha Abbott, PG | Project Manager

Direct Mobile +1 (512) 739-7874 | Business +1 (512) 338-1667 | Sam.Abbott@tetrattech.com

Tetra Tech, Inc. | *Leading with Science*® | OGA

8911 N Capital of Texas Hwy #2310 | Austin, TX 78759 | tetrattech.com

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From: [Walker, Crystal, EMNRD](#)
To: [Chavira, Lisbeth](#); [Lull, Christian](#); [Abbott, Sam](#)
Cc: [Walker, Crystal, EMNRD](#)
Subject: RE: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)
Date: Tuesday, July 30, 2024 9:13:32 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[image005.png](#)

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Good morning,

COG Operating LLC is granted a site characterization extension until 10/23/2024 for incident nAPP2411866719.

Thank you,
Crystal Walker

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Thursday, July 25, 2024 4:20 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Lull, Christian <Christian.Lull@tetrattech.com>; Abbott, Sam <Sam.Abbott@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Haumea State #002H (NAPP2411866719)

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To Whom it May Concern,

On behalf of ConocoPhillips, Tetra Tech is requesting a 90-day extension (until October 23, 2024) to complete assessment and reporting for the Haumea State #002H Release (NAPP2411866719). The Initial C-141 was submitted via the OCD portal system on June 5, 2024. According to the NMOCD C-141, the date of the release was April 26, 2024.

The release was reportedly caused by the overflow of tanks from nearby completion activities. This asset was previously sold to Maverick Permian LLC. Maverick is operating the facility, however, documentation and paperwork associated with the well and battery still indicate COG Operating LLC (ConocoPhillips). As detailed in the Initial C-141, ConocoPhillips notified Maverick Permian LLC, who took immediate action to shut in the affected well.

ConocoPhillips, as prudent operator, coordinated the dispatch of vacuum trucks to recover the released fluid, as a proactive response when Maverick Permian LLC did not perform an initial response action.

Approximately 375 bbls of produced water and 375 bbls of crude oil were reported released, of which 350 bbls of produced water and 350 bbls of crude oil were recovered.

This release footprint is located on State Trust Land managed by the New Mexico State Land Office (NMSLO).

Based on correspondence with ConocoPhillips, a Right of Entry (ROE) permit is required at the Site to perform any additional actions related to release characterization and assessment.

The release footprint is located within active oil and gas lease VC12000000, under FRANKLIN MOUNTAIN ENERGY 3, LLC.

ConocoPhillips has submitted a ROE permit to the NMSLO, but is awaiting receipt of the ROE, and until the approval is received, additional intrusive work cannot be performed.

As such, ConocoPhillips is planning to complete characterization and assessment activities once the ROE permit has been received.

Therefore, additional time is required to perform the following items:

- Site Visit and assessment sampling.
- Coordination with the NMSLO.
- Completion of the site characterization and preparation of the report for OCD review.

Once the assessment activities are completed and collected sampling data is tabulated and evaluated, a report will be submitted to the OCD.

Thank you in advance.

Lisbeth Chavira | Geoscientist

Direct Mobile +1 (512) 596-8201 | Lisbeth.chavira@tetrattech.com

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Adobe Systems



From: OCDOnline@state.nm.us
To: [Lull, Christian](#)
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 393978
Date: Monday, October 21, 2024 9:05:58 AM

CAUTION: This email originated from an external sender. Verify the source before opening links or attachments.

To whom it may concern (c/o Christian Lull for COG OPERATING LLC),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2411866719.

The liner inspection is expected to take place:

When: 10/24/2024 @ 09:00

Where: B-36-19S-35E 0 FNL 0 FEL (32.62320556,-103.4081944)

Additional Information: Robert Davis will be the TT lead on site, his number is 432-813-4375

Additional Instructions: Approximate Release Point: 32.05366389° -103.49985833°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

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

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



Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE

Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

July 30, 2024

ConocoPhillips
600 West Illinois Ave
Midland, TX 79701

Attn: Jacob Laird

Re: Right-of-Entry Permit No.: **RE-7121 Haumea State 2H**

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Samantha Martinez of my staff at (505) 827-4003.

Sincerely,


James S. Bordegaray
Director, Commercial Resources Division

JSB/sm



NEW MEXICO STATE LAND OFFICE
 Commissioner of Public Lands
 Stephanie Garcia Richard
 New Mexico State Land Office Building
 P.O. Box 1148, Santa Fe, NM 87504-1148

**RIGHT OF ENTRY PERMIT
 CONTRACT NO. RE – 7121**

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

ConocoPhillips
600 West Illinois Ave
Midland, TX 79701

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a crude oil and produced water release on or adjacent to the site of the **Haumea State 2H (Incident # NAPP2411866719)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Lea County**, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
36	19S	35E	NW4NE4	Lea	32.62320556/-103.4081944

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

\$ 50.00 Application Fee
 \$ 500.00 Permit Fee
 \$ 550.00 Total Fee

RE-7121

4. CONDITIONS OF USE

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **ConocoPhillips Personnel**
- L. Equipment and materials present on Premises: **Backhoe and associated equipment.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-7121

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Ry D. A
PERMITTEE SIGNATURE

DATE: 7-25-24

Ryan D. Owen

Attorney-in-fact

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY:

Stephanie Garcia Richard
Commissioner of Public Lands

DATE:

07/31/2024



Chavira, Lisbeth

From: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Sent: Friday, March 14, 2025 4:47 PM
To: Chavira, Lisbeth
Cc: Llull, Christian
Subject: RE: [EXTERNAL] Extension Request - Haumea State #002H Battery (NAPP2411866719)

⚠ CAUTION: This email originated from an external sender. Verify the source before opening links or attachments. **⚠**

Your extension request has been approved. Please submit the remediation work plan via the OCD permitting portal by May 13, 2025.

Ashley Maxwell • Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.635.5000 | Ashley.Maxwell@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/oed/oed-announcements-and-notifications/> under “2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS”.

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/oed/oed-announcements-and-notifications/> or <https://www.emnrd.nm.gov/oed/oed-forms/>.

From: Chavira, Lisbeth <LISBETH.CHAVIRA@tetrattech.com>
Sent: Friday, March 14, 2025 3:32 PM
To: Maxwell, Ashley, EMNRD <Ashley.Maxwell@emnrd.nm.gov>
Cc: Llull, Christian <Christian.Llull@tetrattech.com>
Subject: [EXTERNAL] Extension Request - Haumea State #002H Battery (NAPP2411866719)

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Ashley,

Tetra Tech on behalf of ConocoPhillips is requesting a 60-day extension for the Haumea State #002H Battery Release (NAPP2411866719).

Haumea State #002H Battery Release
Lea County, New Mexico
DOR: 4/26/2024
INCIDENT ID: NAPP2411866719
Approximate Release Point: 32.62320556,-103.4081944
State Trust Lands

Tetra Tech and OCD held a conference call today to review the site and the release incident. As discussed, as Maverick Permian, LLC acquired the Haumea State #002H (API# 30-025-40833).

However, the NMOCD database does not reflect Maverick Permian, LLC as the operator and COG Operating LLC remains listed as the operator of the facility (fAPP2203945340) and the associated well.

As a result of this nuanced scenario, Tetra Tech is requesting additional time to complete and submit a Work Plan for this release incident.

As discussed on the call, the following has been conducted to date at the site:

- Initial assessment both on-pad and pasture outside the facility.
- A Depth to groundwater boring was installed and a water level was established.
- A Liner Inspection was completed, with a corresponding C-141L.
- Right Of Entry procured from NMSLO.

Additional work which has been completed to date:

- Earthwork to provide access to the battery interior; and
- Additional assessment activities were performed both inside the facility berm and on-pad for vertical and horizontal delineation with a truck-mounted drilling rig in February 2025.
- Delineation inside the battery berm was completed.

Tetra Tech has a draft Work Plan in place which is currently in review with the COP legal department.

This extension will allow for additional time for the legal review of the document, additional coordination with NMSLO, as well as additional coordination with the current operator of the Site (Maverick Permian LLC).

Please let me know if you have any questions or need additional information.

Thank you and have a nice weekend.

Lisbeth Chavira | Geoscientist

Direct Mobile +1 (512) 596-8201 | Lisbeth.chavira@tetrattech.com

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TETRA TECH

APPENDIX C


Site Characterization

OCD Land Ownership





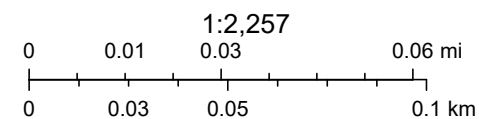
8/19/2024, 9:06:56 AM

Mineral Ownership

 N-No minerals are owned by the U.S.

Land Ownership

 P
 S



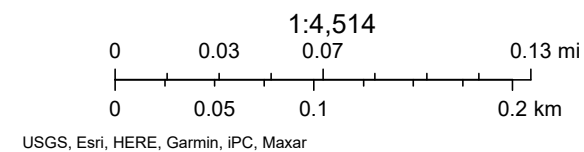
U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC

OCD Groundwater Wells



8/19/2024, 1:37:12 PM


▲ USGS Historical GW Wells



Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
L 08124	SE	SE	SE	25	19S	35E	649795.0	3610833.0 *		

* UTM location was derived from PLSS - see Help

Driller License:	46	Driller Company:	ABBOTT BROTHERS COMPANY
Driller Name:			
Drill Start Date:	1979-08-02	Drill Finish Date:	1979-08-03
Log File Date:	1979-08-13	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	6.63	Depth Well:	125
		Depth Water:	58

Water Bearing Stratifications:

Top	Bottom	Description
58	125	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
67	125

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.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
L 08124		L	LE	SE	SE	SE	25	19S	35E	649795.0	3610833.0	*	538	125	58	67
L 01757		L	LE	NW	NE	NW	30	19S	36E	650362.0	3612254.0	*	1941	55	18	37
L 03715		L	LE	NE	NE	NW	30	19S	36E	650562.0	3612254.0	*	2058	53	20	33
L 03716		L	LE	NE	NE	NW	30	19S	36E	650562.0	3612254.0	*	2058	55	19	36
L 04604 S5		L	LE	NE	SE	SE	24	19S	35E	649772.0	3612645.0	*	2069	55	22	33
L 01755 POD2		L	LE	SE	NE	SE	24	19S	35E	649766.0	3612848.0	*	2266	55	20	35
L 04604 S3		L	LE	SE	NE	SE	24	19S	35E	649766.0	3612848.0	*	2266	56	22	34
L 04604 S4		L	LE	SE	NE	SE	24	19S	35E	649766.0	3612848.0	*	2266	57	22	35
L 00011		L	LE	SW	NW	NW	32	19S	36E	651602.0	3610461.0	*	2312	42		
L 04596		L	LE		NE	SE	24	19S	35E	649667.0	3612949.0	*	2347	56	26	30
L 04116 S		L	LE		NW	NE	02	20S	35E	647710.0	3608881.0	*	2361	55	50	5
L 01755	R	L	LE	NE	NE	SE	24	19S	35E	649766.0	3613048.0	*	2462	56	20	36
L 04604		L	LE	NE	NE	SE	24	19S	35E	649766.0	3613048.0	*	2462	55	22	33
L 04604 S		L	LE	NE	NE	SE	24	19S	35E	649766.0	3613048.0	*	2462	56	22	34
L 04604 S2		L	LE	NE	NE	SE	24	19S	35E	649766.0	3613048.0	*	2462	56	22	34
L 04604 S6		L	LE	NE	NE	SE	24	19S	35E	649766.0	3613048.0	*	2462	57	22	35
L 00049		L	LE		NW	SE	19	19S	36E	650853.0	3612969.0	*	2809	70		
L 08083		L	LE			SW	32	19S	36E	651926.0	3609553.0	*	2842	50	35	15
L 00512 POD3		L	LE	NE	NE	SW	32	19S	36E	652097.0	3609914.9		2891	60	30	30
L 00512 S		L	LE	SW	NE	SW	32	19S	36E	652020.0	3609660.0	*	2891	65	30	35
L 01278		L	LE	NE	NW	SE	19	19S	36E	650952.0	3613068.0	*	2946	50	18	32

Average Depth to Water: 26 feet

Minimum Depth: 18 feet

Maximum Depth: 58 feet

Record Count: 21

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 649296.00

Northing: 3610631.00

Radius: 003000

* UTM location was derived from PLSS - see Help

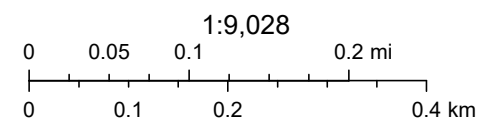
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

OCD Water Bodys



8/19/2024, 9:10:16 AM

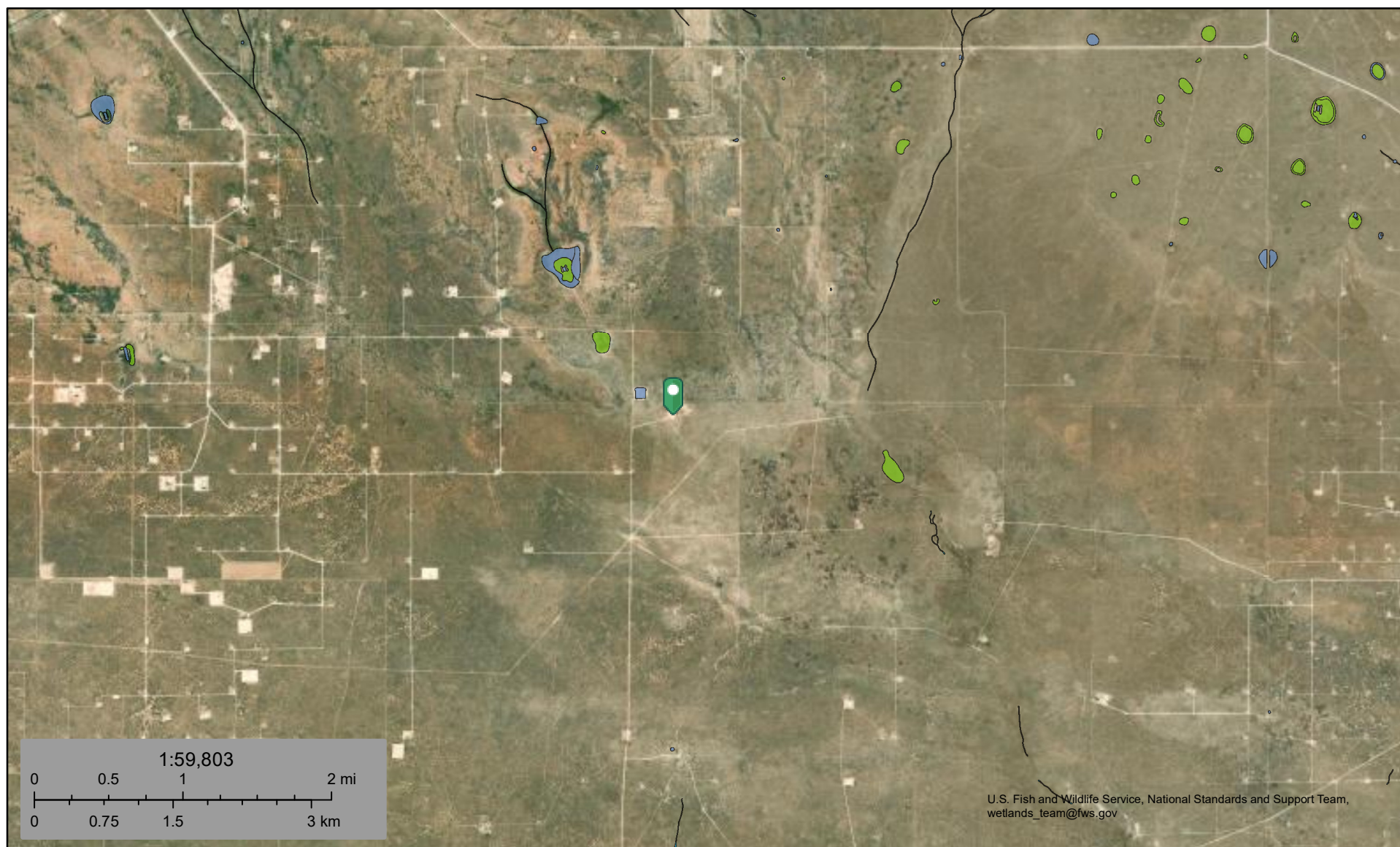
 OSW Water Bodys



Esri, HERE, Garmin, iPC, Maxar, NM OSE



National Wetlands Inventory



August 19, 2024

Wetlands

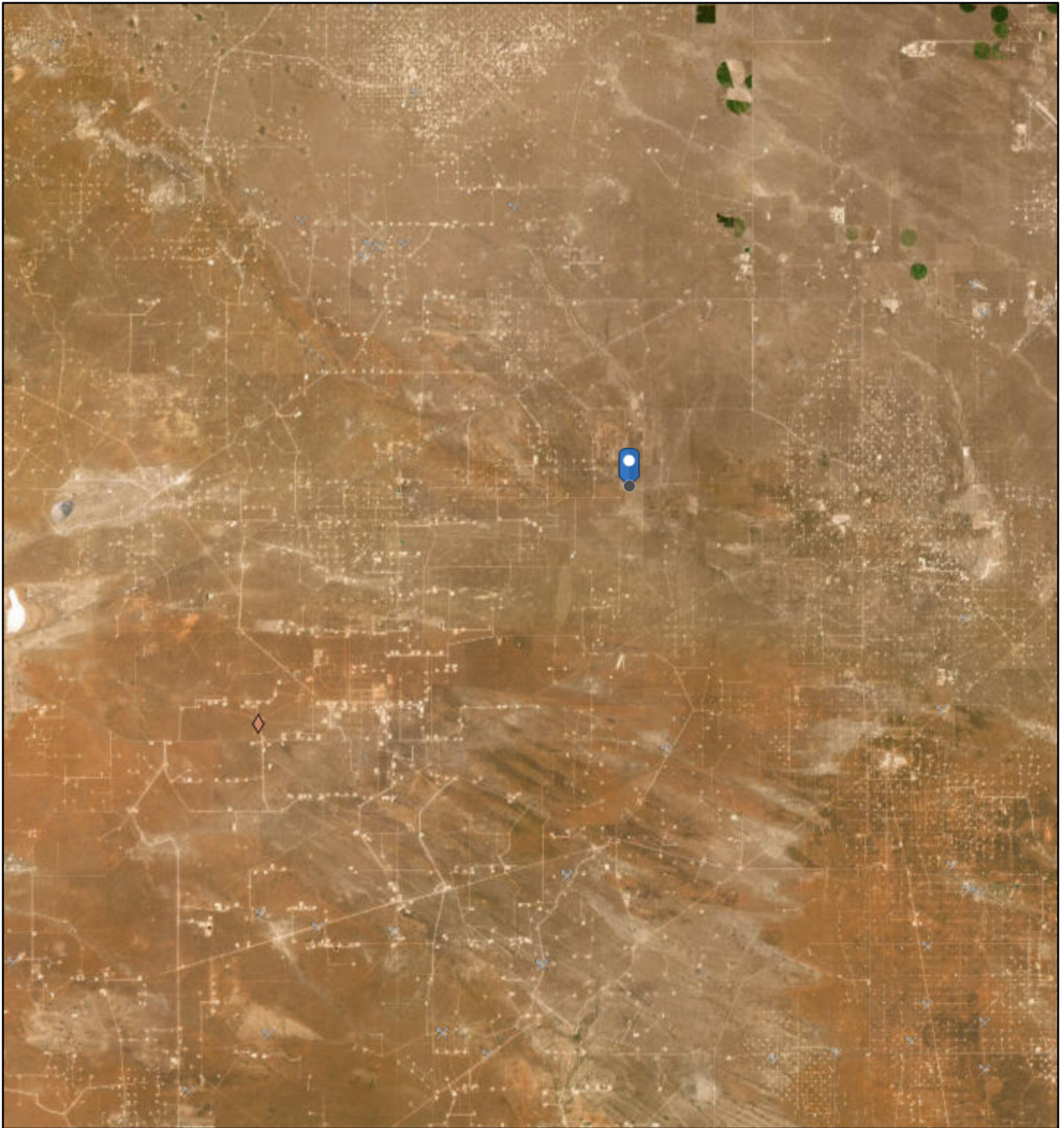
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine





This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

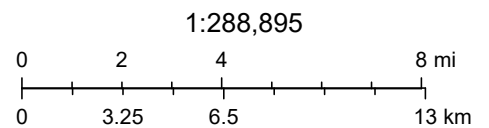
Active Mines in New Mexico



8/19/2024, 1:39:49 PM

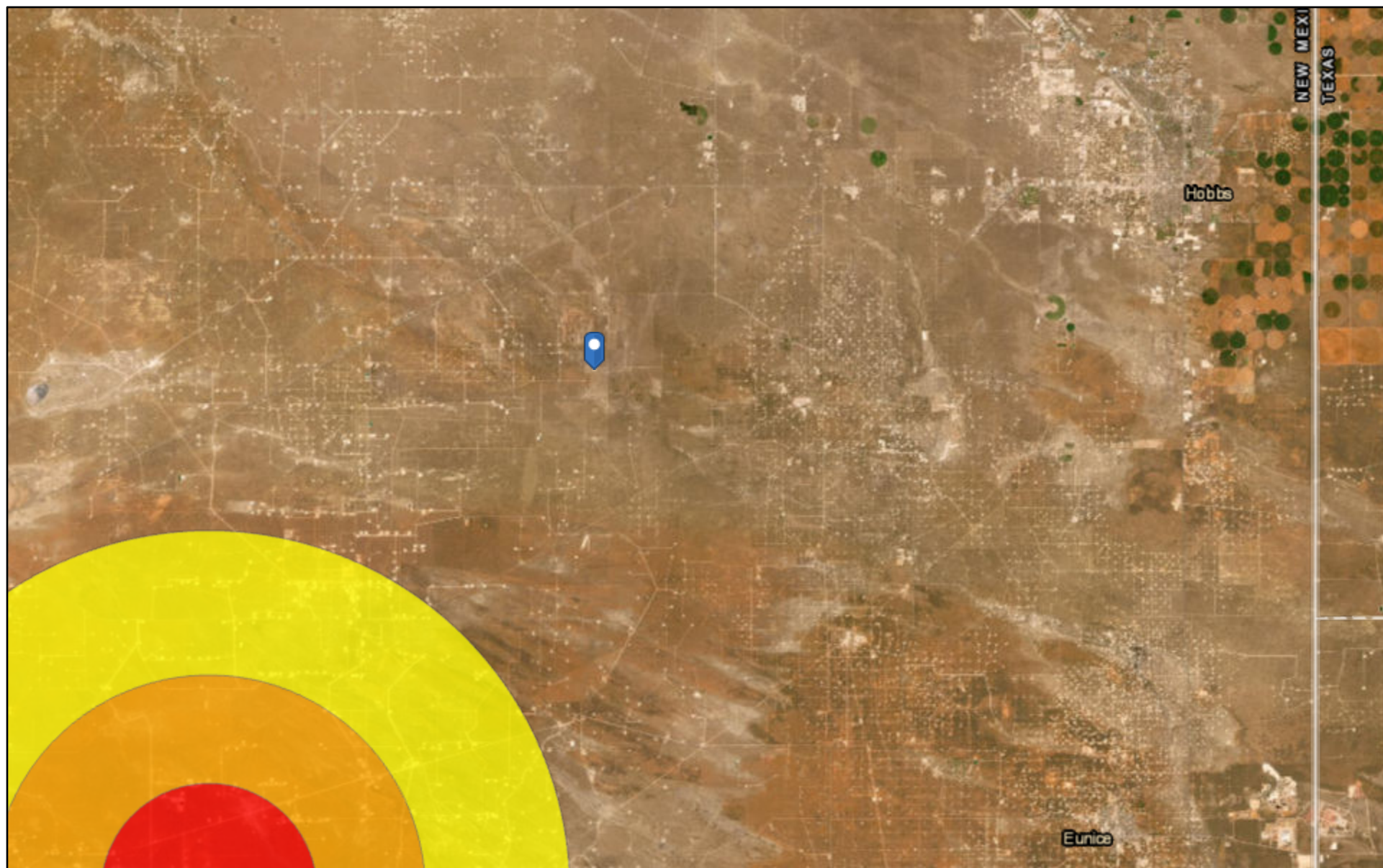
Registered Mines

-  Aggregate, Stone etc.
-  Aggregate, Stone etc.
-  Aggregate, Stone etc.
-  Industrial Minerals (Other)






Esri, HERE, Garmin, Earthstar Geographics

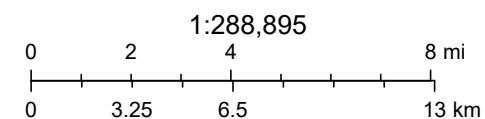
OCD Seismicity Area



8/19/2024, 1:33:42 PM

Seismic Response 3.0 to 3.4

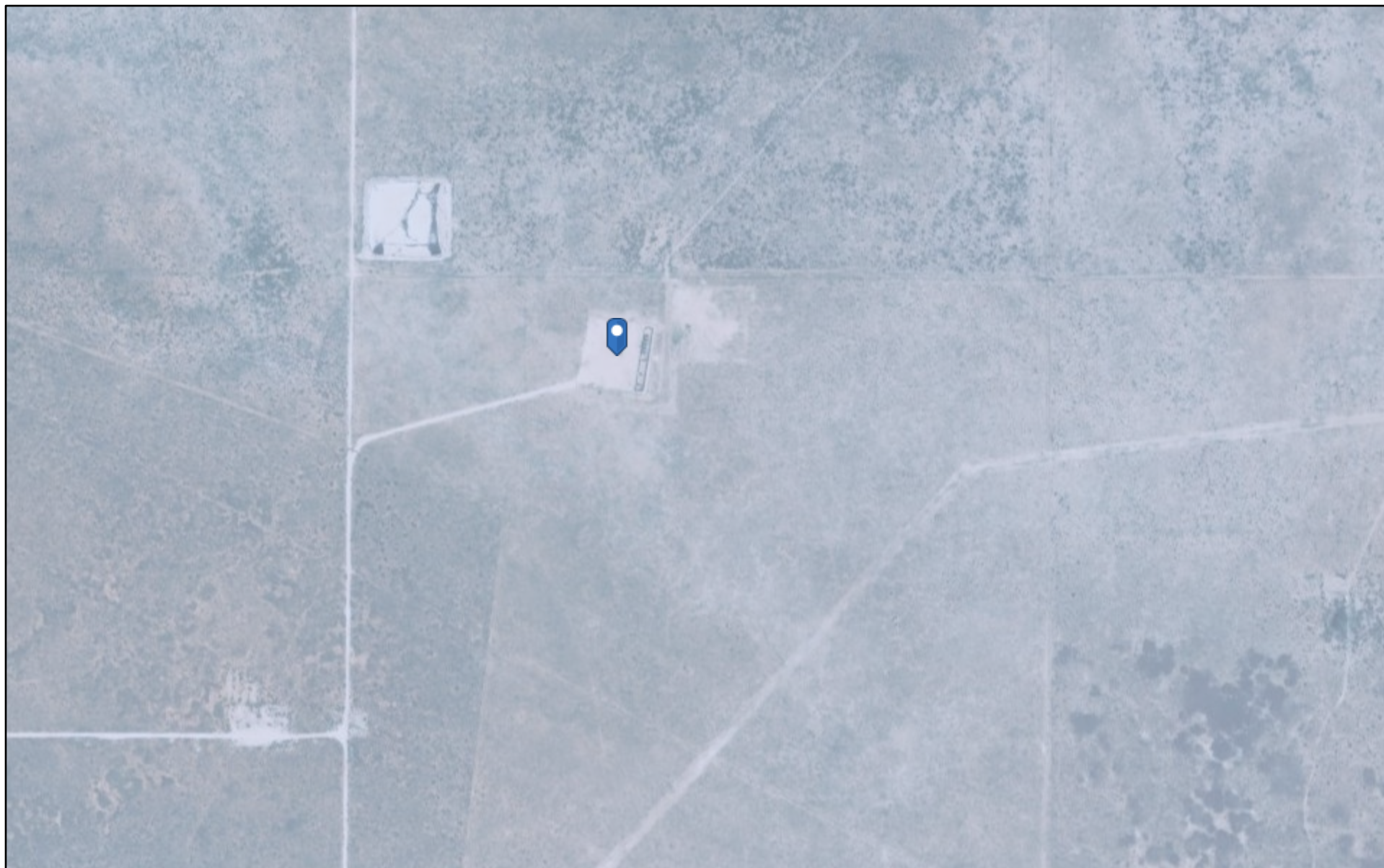
	3 mi.		6 mi.
			10 mi.



Oil Conservation Division (OCD), Energy, Minerals and Natural Resources Department (EMNRD), Esri, HERE, Garmin, Earthstar Geographics

New Mexico Oil Conservation Division

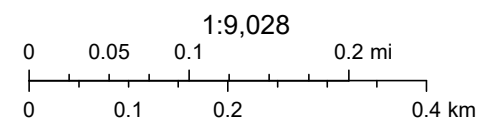
OCD Karst Potential



8/19/2024, 1:31:21 PM

Karst Occurrence Potential

Low

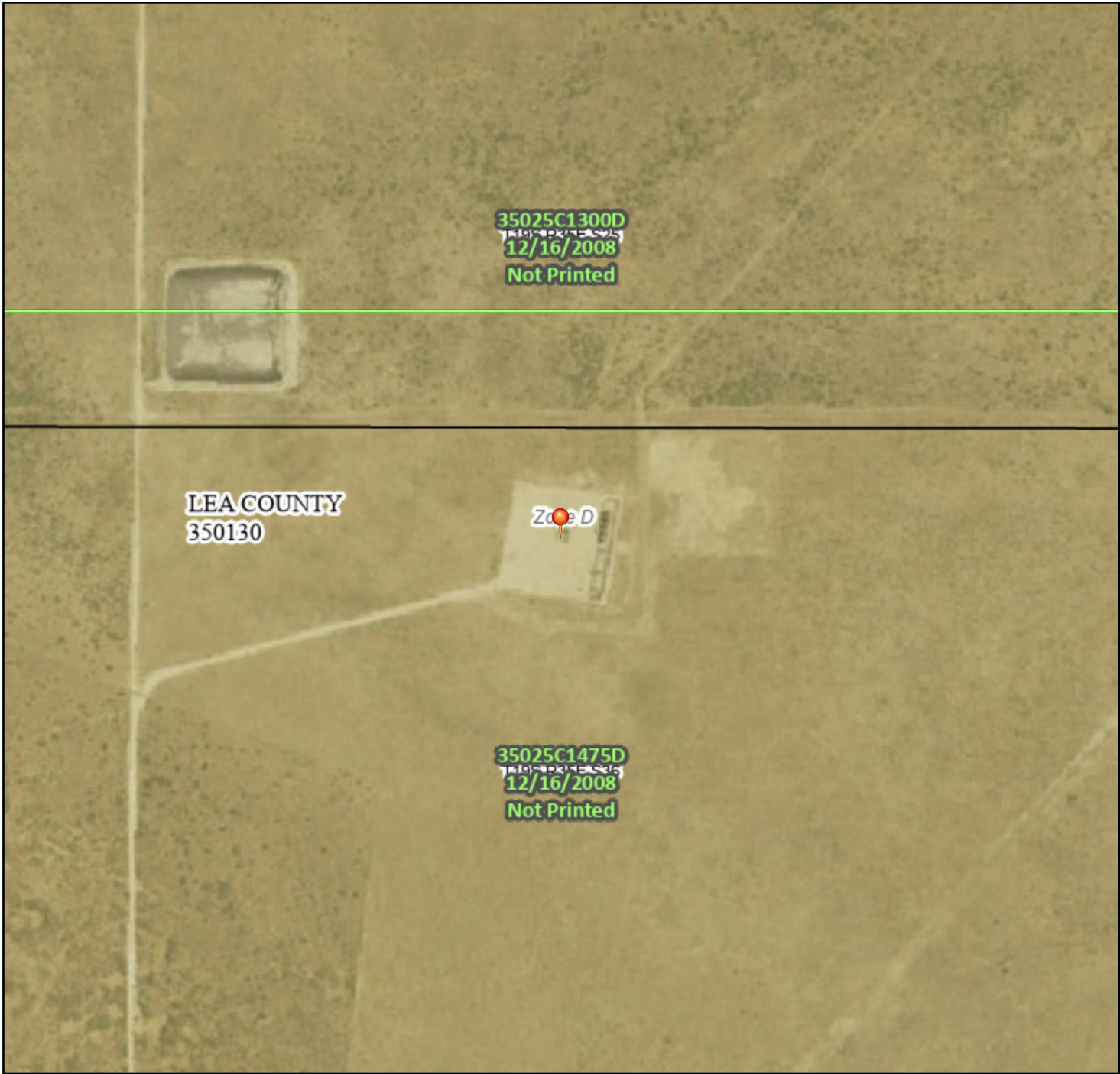


BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

National Flood Hazard Layer FIRMette



103°24'50"W 32°37'39"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°24'12"W 32°37'8"N

Released to Imaging: 5/20/2025 9:30:20 AM

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/19/2024 at 2:41 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

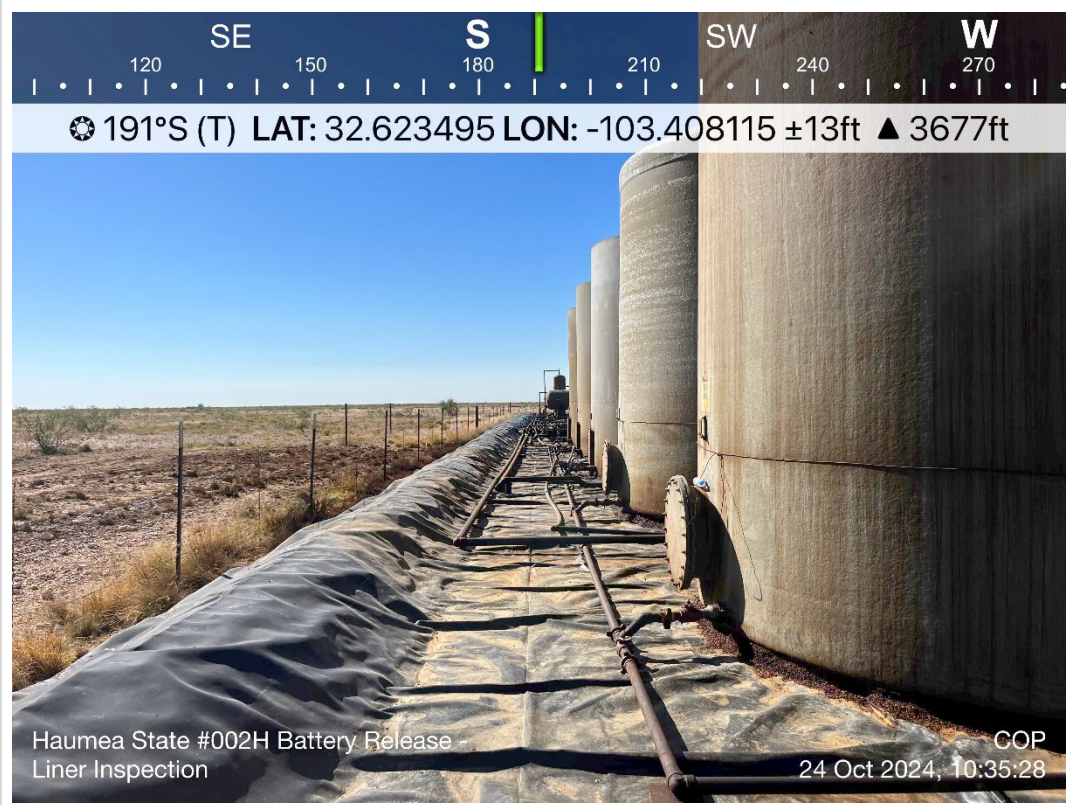
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View south-southeast. Current lined containment area conditions: small rips, holes and tears observed.	21
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View south-southwest. Current lined containment area conditions: small rips, holes and tears observed.	22
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View west. Current lined containment area conditions: small rips, holes and tears observed.	23
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View west-northwest. Current lined containment area conditions: small rips, holes and tears observed.	24
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



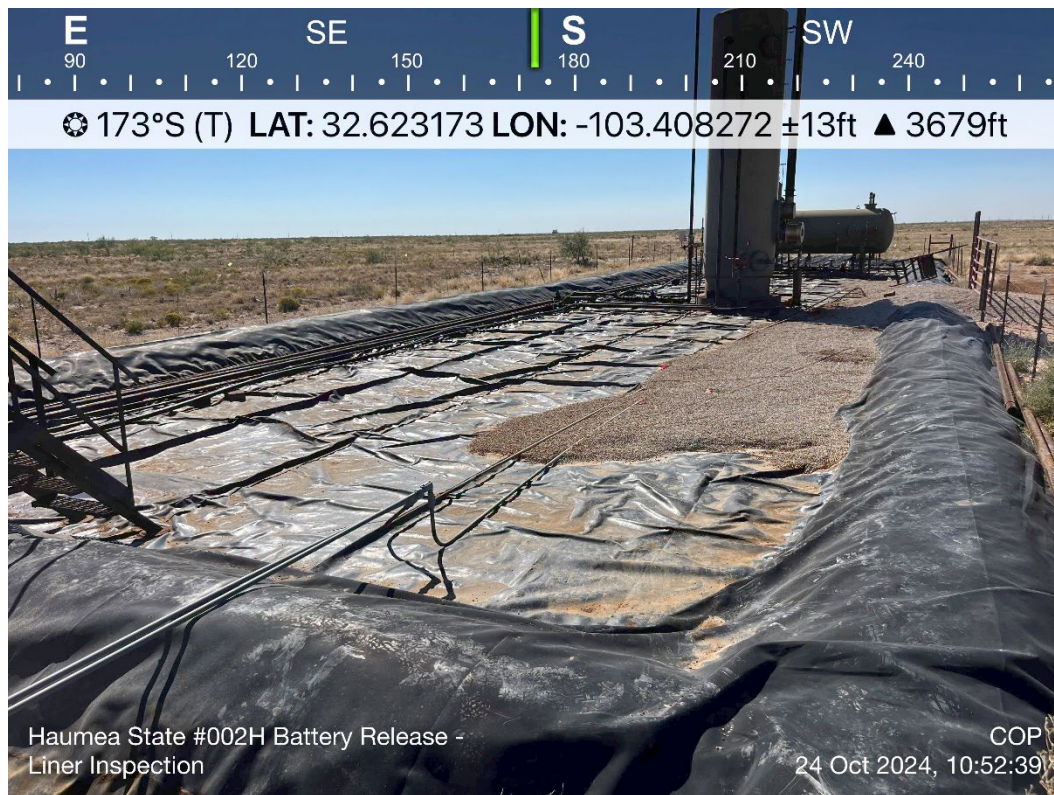
TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View north. Current lined containment area conditions: small rips, holes and tears observed.	25
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



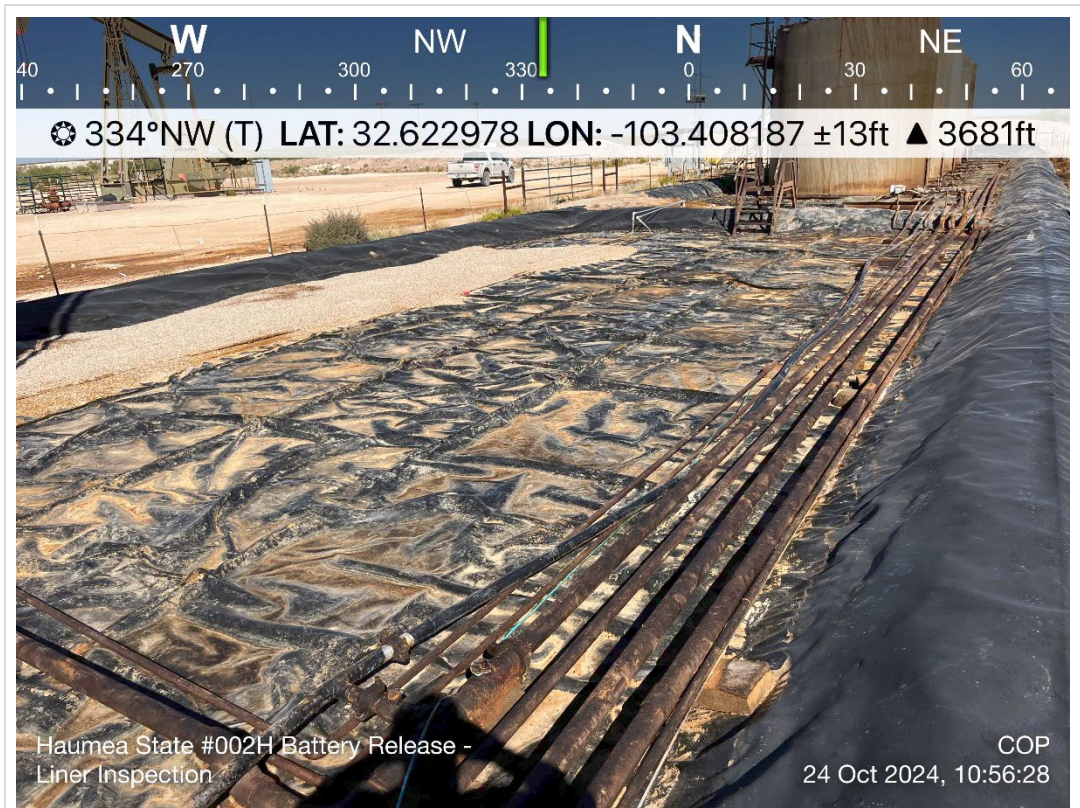
TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View northwest. Current lined containment area conditions: small rips, holes and tears observed.	26
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View north. Current lined containment area conditions: small rips, holes and tears observed.	27
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



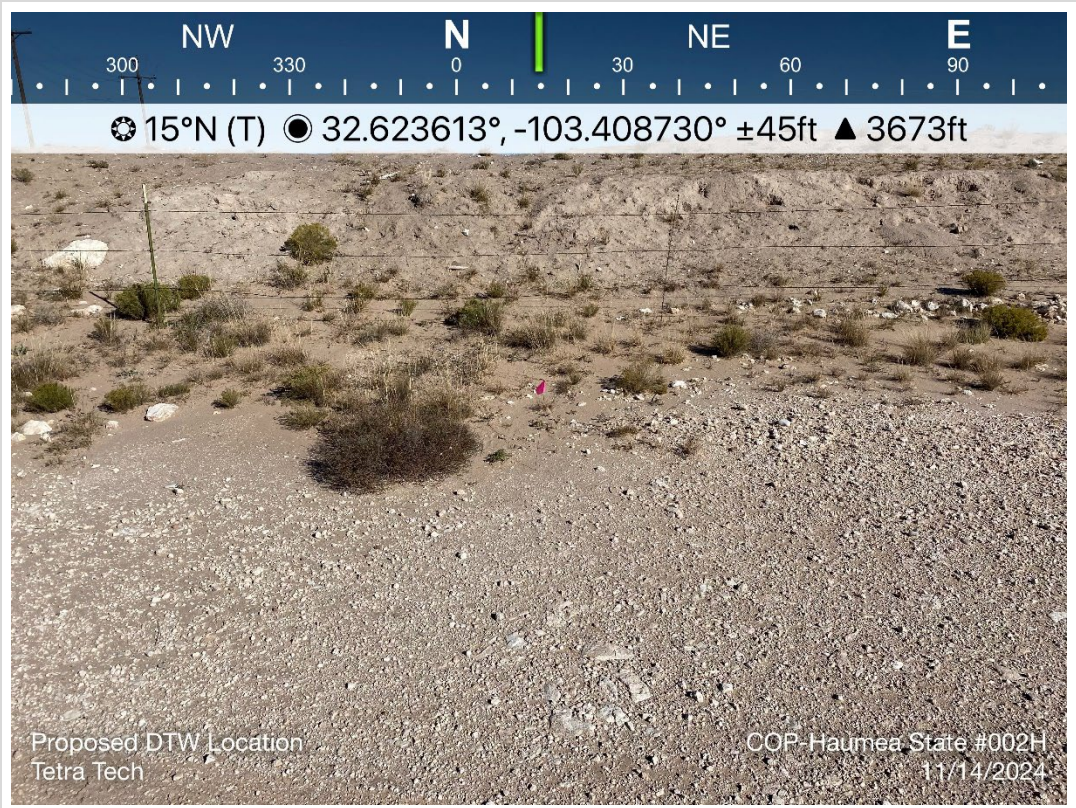
TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View south. Current lined containment area conditions: small rips, holes and tears observed.	28
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View north-northwest. Current lined containment area conditions: small rips, holes and tears observed.	29
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View south. Current lined containment area conditions: small rips, holes and tears observed.	30
	SITE NAME	Haumea State #002H Battery Release	10/24/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View north. View of DTW location.	31
	SITE NAME	Haumea State #002H Battery Release	11/14/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View south. View of reconstruction after drilling activities.	32
	SITE NAME	Haumea State #002H Battery Release	2/18/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03585	DESCRIPTION	View southeast – south. View of boring location. View of reconstruction after drilling activities.	32
	SITE NAME	Haumea State #002H Battery Release	2/18/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-02832	DESCRIPTION	View northeast. View of boring location. View of reconstruction after drilling activities.	33
	SITE NAME	Haumea State #002H Battery Release	2/18/2025

APPENDIX E

Laboratory Analytical Data

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

September 12, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HAUMEA STATE #002H BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 16:51.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH - 1 (0-1')	H245322-01	Soil	30-Aug-24 16:02	30-Aug-24 16:51
AH - 1 (1-1.5')	H245322-02	Soil	30-Aug-24 16:12	30-Aug-24 16:51
AH - 2 (0-1')	H245322-03	Soil	30-Aug-24 15:42	30-Aug-24 16:51
AH - 2 (1-1.5')	H245322-04	Soil	30-Aug-24 15:56	30-Aug-24 16:51
AH - 3 (0-1')	H245322-05	Soil	30-Aug-24 15:21	30-Aug-24 16:51
AH - 3 (1-1.5')	H245322-06	Soil	30-Aug-24 15:30	30-Aug-24 16:51
AH - 4 (0-1')	H245322-07	Soil	30-Aug-24 15:14	30-Aug-24 16:51
AH - 5 (0-1')	H245322-08	Soil	30-Aug-24 14:59	30-Aug-24 16:51
AH - 5 (1-1.5')	H245322-09	Soil	30-Aug-24 15:08	30-Aug-24 16:51
AH - 6 (0-1')	H245322-10	Soil	30-Aug-24 14:55	30-Aug-24 16:51
AH - 7 (0-1')	H245322-11	Soil	30-Aug-24 14:27	30-Aug-24 16:51
AH - 7 (1-1.5')	H245322-12	Soil	30-Aug-24 14:41	30-Aug-24 16:51
AH - 8 (0-1')	H245322-13	Soil	30-Aug-24 13:59	30-Aug-24 16:51
AH - 8 (1-1.5')	H245322-14	Soil	30-Aug-24 14:18	30-Aug-24 16:51
AH - 9	H245322-15	Soil	30-Aug-24 13:45	30-Aug-24 16:51
AH - 10	H245322-16	Soil	30-Aug-24 13:38	30-Aug-24 16:51
AH - 11	H245322-17	Soil	30-Aug-24 13:31	30-Aug-24 16:51
AH - 12	H245322-18	Soil	30-Aug-24 13:26	30-Aug-24 16:51

09/12/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 09/05/24.

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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 1 (0-1')
H245322-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4090326	HM	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134 4090315 JH 03-Sep-24 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	48.1		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane 117 % 48.2-134 4090312 MS 04-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 166 % 49.1-148 4090312 MS 04-Sep-24 8015B

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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 1 (1-1.5')**H245322-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4090326	HM	03-Sep-24	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		4090315	JH	03-Sep-24	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane			87.0 %	48.2-134		4090312	MS	04-Sep-24	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			117 %	49.1-148		4090312	MS	04-Sep-24	8015B	
-------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 2 (0-1')
H245322-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4090326	HM	03-Sep-24	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	113		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	32.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane			117 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			161 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 2 (1-1.5')**H245322-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	4090326	HM	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		103 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	142		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	51.2		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane		113 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane		161 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 3 (0-1')
H245322-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	224		16.0	mg/kg	4	4090326	HM	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	1.11		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	3.95		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	GC-NC1
Total BTEX	5.07		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 174 % 71.5-134 4090315 JH 03-Sep-24 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	273		50.0	mg/kg	5	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	14300		50.0	mg/kg	5	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	3160		50.0	mg/kg	5	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane 163 % 48.2-134 4090312 MS 04-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 327 % 49.1-148 4090312 MS 04-Sep-24 8015B

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 3 (1-1.5')**H245322-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	0.056		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	0.226		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	GC-NC1
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134 4090315 JH 03-Sep-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	10.2		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	783		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	170		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane 112 % 48.2-134 4090312 MS 04-Sep-24 8015B

Surrogate: 1-Chlorooctadecane 147 % 49.1-148 4090312 MS 04-Sep-24 8015B

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 4 (0-1')
H245322-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	560		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	138		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane			109 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			148 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 5 (0-1')
H245322-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			129 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 5 (1-1.5')**H245322-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4090315	JH	03-Sep-24	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
Surrogate: 1-Chlorooctane			99.6 %	48.2-134		4090312	MS	03-Sep-24	8015B	
Surrogate: 1-Chlorooctadecane			125 %	49.1-148		4090312	MS	03-Sep-24	8015B	

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 6 (0-1')
H245322-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	25.3		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	15.4		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane			93.9 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			129 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 7 (0-1')
H245322-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	12.3		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			148 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 7 (1-1.5')**H245322-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
DRO >C10-C28*	20.4		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	04-Sep-24	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		4090312	MS	04-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			155 %	49.1-148		4090312	MS	04-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 8 (0-1')
H245322-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			104 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

Surrogate: 1-Chlorooctane			99.5 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			125 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 8 (1-1.5')**H245322-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

Surrogate: 1-Chlorooctane			95.8 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 9**H245322-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

Surrogate: 1-Chlorooctane			95.4 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			117 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 10
H245322-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			128 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 11
H245322-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1250		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	03-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	03-Sep-24	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	71.5-134		4090315	JH	03-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

<i>Surrogate: 1-Chlorooctane</i>			96.7 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			122 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

AH - 12
H245322-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4090333	CT	03-Sep-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4090315	JH	04-Sep-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4090315	JH	04-Sep-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4090315	JH	04-Sep-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4090315	JH	04-Sep-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4090315	JH	04-Sep-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		4090315	JH	04-Sep-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4090312	MS	03-Sep-24	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		4090312	MS	03-Sep-24	8015B	
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Surrogate: 1-Chlorooctadecane			127 %	49.1-148		4090312	MS	03-Sep-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 4090326 - 1:4 DI Water**Blank (4090326-BLK1)**

Prepared & Analyzed: 03-Sep-24

Chloride	ND	16.0	mg/kg						
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LCS (4090326-BS1)

Prepared & Analyzed: 03-Sep-24

Chloride	448	16.0	mg/kg	400	112	80-120			
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LCS Dup (4090326-BSD1)

Prepared & Analyzed: 03-Sep-24

Chloride	432	16.0	mg/kg	400	108	80-120	3.64	20	
----------	-----	------	-------	-----	-----	--------	------	----	--

Batch 4090333 - 1:4 DI Water**Blank (4090333-BLK1)**

Prepared & Analyzed: 03-Sep-24

Chloride	ND	16.0	mg/kg						
----------	----	------	-------	--	--	--	--	--	--

LCS (4090333-BS1)

Prepared & Analyzed: 03-Sep-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (4090333-BSD1)

Prepared & Analyzed: 03-Sep-24

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4090315 - Volatiles**Blank (4090315-BLK1)**

Prepared & Analyzed: 03-Sep-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	71.5-134			

LCS (4090315-BS1)

Prepared & Analyzed: 03-Sep-24

Benzene	2.19	0.050	mg/kg	2.00		109	82.8-130			
Toluene	2.23	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.22	0.050	mg/kg	2.00		111	85.9-128			
m,p-Xylene	4.59	0.100	mg/kg	4.00		115	89-129			
o-Xylene	2.23	0.050	mg/kg	2.00		112	86.1-125			
Total Xylenes	6.82	0.150	mg/kg	6.00		114	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	71.5-134			

LCS Dup (4090315-BSD1)

Prepared & Analyzed: 03-Sep-24

Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130	0.826	15.8	
Toluene	2.20	0.050	mg/kg	2.00		110	86-128	0.974	15.9	
Ethylbenzene	2.20	0.050	mg/kg	2.00		110	85.9-128	1.01	16	
m,p-Xylene	4.57	0.100	mg/kg	4.00		114	89-129	0.430	16.2	
o-Xylene	2.21	0.050	mg/kg	2.00		111	86.1-125	0.958	16.7	
Total Xylenes	6.78	0.150	mg/kg	6.00		113	88.2-128	0.603	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	71.5-134			

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585
Project Manager: CHRISTIAN LLULL
Fax To: (432) 682-3946

Reported:
12-Sep-24 15:36

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4090312 - General Prep - Organics**Blank (4090312-BLK1)**

Prepared: 03-Sep-24 Analyzed: 04-Sep-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.4		mg/kg	50.0		92.7	48.2-134		
Surrogate: 1-Chlorooctadecane	61.8		mg/kg	50.0		124	49.1-148		

LCS (4090312-BS1)

Prepared & Analyzed: 03-Sep-24

GRO C6-C10	208	10.0	mg/kg	200		104	66.4-123		
DRO >C10-C28	233	10.0	mg/kg	200		117	66.5-118		
Total TPH C6-C28	442	10.0	mg/kg	400		110	77.6-123		
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	48.2-134		
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.9	49.1-148		

LCS Dup (4090312-BSD1)

Prepared & Analyzed: 03-Sep-24

GRO C6-C10	203	10.0	mg/kg	200		101	66.4-123	2.75	17.7
DRO >C10-C28	206	10.0	mg/kg	200		103	66.5-118	12.6	21
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123	7.84	18.5
Surrogate: 1-Chlorooctane	46.9		mg/kg	50.0		93.9	48.2-134		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.1	49.1-148		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

page 1 of 2

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: Conoco Phillips						P.O. #:						BILL TO					
Project Manager: Christian Linn						Attn: Christian Linn						ANALYSIS REQUEST					
Address:						City:						State:					
Phone #:						Fax #:											
Project #: 212C-MD-03585						Project Owner:											
Project Name: Hagerman State #002H Battery Release						City:											
Project Location: Lee Co, NM						State:						Zip:					
Sample Name: Andrew Garcia						Phone #:											
FOR LAB USE ONLY						Fax #:											
Lab I.D.						Sample I.D.											
H245322						(G)RAB OR (C)OMP.											
1						# CONTAINERS											
2						GROUNDWATER											
3						WASTEWATER											
4						SOIL											
5						OIL											
6						SLUDGE											
7						OTHER :											
AH-7 (0-1')						ACID/BASE:											
AH-7 (1'-1.5')						ICE / COOL											
AH-8 (0-1')						OTHER :											
AH-8 (1'-1.5')						DATE											
AH-9						TIME											
AH-10						TPH											
AH-11						BTEx											
AH-12						Chlorides											
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
Relinquished By: Andrew Garcia						Date: 8/30/24											
Time: 10:51						Received By: [Signature]											
Relinquished By:						Date:											
Time:						Received By:											
Delivered By: (Circle One)						Observed Temp. °C: 3.3°C											
Corrected Temp. °C: 2.7°C						Sample Condition											
Cool Intact						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
CHECKED BY: [Signature]																	
Thermometer ID #140						Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>											
Correction Factor -0.6°C						Bacteria (only) Sample Condition											
Cool Intact						Yes <input type="checkbox"/> No <input type="checkbox"/>											
Corrected Temp. °C																	



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

September 17, 2024

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HAUMEA STATE #002H BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 09/12/24 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/12/2024	Sampling Date:	09/12/2024
Reported:	09/17/2024	Sampling Type:	Soil
Project Name:	HAUMEA STATE #002H BATTERY RELEA	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03585	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: AH - 13 (0-1') (H245514-01)

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	09/13/2024	ND	2.25	113	2.00	0.716	
Toluene*	<0.050	0.050	09/13/2024	ND	2.18	109	2.00	3.29	
Ethylbenzene*	<0.050	0.050	09/13/2024	ND	2.23	112	2.00	5.06	
Total Xylenes*	<0.150	0.150	09/13/2024	ND	6.77	113	6.00	5.25	
Total BTX	<0.300	0.300	09/13/2024	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	80.0	16.0	09/12/2024	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	09/12/2024	ND	193	96.6	200	1.77	
DRO >C10-C28*	<10.0	10.0	09/12/2024	ND	189	94.5	200	0.275	
EXT DRO >C28-C36	<10.0	10.0	09/12/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Terra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Lisbeth Chavira

P.O. #:

Address: 8911 Capital Of Texas Hwy, Suite 2310

Company: Terra Tech

City: Austin

State: TX Zip:

Attn: Lisbeth Chavira

Phone #: (512) 565-0190

Fax #:

Address: EMAIL

Project #: 212C-MD-03585

Project Owner: ConocoPhillips

Project Name: Haumaes State #002H Battery Release

State: Zip:

Project Location: Lea County, New Mexico

Phone #:

Sampler Name: Colton Bickerstaff

Fax #:

FOR LAB USE ONLY
Lab I.D.

Sample I.D.

H2455K
AH-13 (0-1')

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride SM4500Cl-B

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Relinquished By: Colton Bickerstaff

Date: 09/12/24

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Received By:

REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact ☒ ☐ ☐ ☐

CHECKED BY:
(Initials)

Turnaround Time: Standard ☒ Rush ☐

Bacteria (only) Sample Condition
Observed Temp. °C

Thermometer ID #140
Correction Factor -0.8°C

Corrected Temp. °C

FORM-006 R 3.2 11/07/21

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

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

March 06, 2025

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HAUMEA STATE #002H BATTERY RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/19/25 9:01.

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

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (0'-1')	H250978-01	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (2'-3')	H250978-02	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (3'-4')	H250978-03	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (5'-6')	H250978-04	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (7'-8')	H250978-05	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (9'-10')	H250978-06	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (14'-15')	H250978-07	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-1 (19'-20')	H250978-08	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (0'-1')	H250978-09	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (2'-3')	H250978-10	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (3'-4')	H250978-11	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (5'-6')	H250978-12	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (7'-8')	H250978-13	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (9'-10')	H250978-14	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-2 (14'-15')	H250978-15	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (0'-1')	H250978-16	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (2'-3')	H250978-17	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (3'-4')	H250978-18	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (5'-6')	H250978-19	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (7'-8')	H250978-20	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (9'-10')	H250978-21	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (14'-15')	H250978-22	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-3 (19'-20')	H250978-23	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-4 (0'-1')	H250978-24	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-4 (2'-3')	H250978-25	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-4 (3'-4')	H250978-26	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-4 (5'-6')	H250978-27	Soil	18-Feb-25 00:00	19-Feb-25 09:01

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (7'-8')	H250978-28	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-4 (9'-10')	H250978-29	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (0'-1')	H250978-30	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (2'-3')	H250978-31	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (3'-4')	H250978-32	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (5'-6')	H250978-33	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (7'-8')	H250978-34	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (9'-10')	H250978-35	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (14'-15')	H250978-36	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-5 (19'-20')	H250978-37	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (0'-1')	H250978-38	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (2'-3')	H250978-39	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (3'-4')	H250978-40	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (5'-6')	H250978-41	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (7'-8')	H250978-42	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-6 (9'-10')	H250978-43	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (0'-1')	H250978-44	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (2'-3')	H250978-45	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (3'-4')	H250978-46	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (5'-6')	H250978-47	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (7'-8')	H250978-48	Soil	18-Feb-25 00:00	19-Feb-25 09:01
BH-7 (9'-10')	H250978-49	Soil	18-Feb-25 00:00	19-Feb-25 09:01

03/06/25 - The client requested some reruns. It was found that the TPH for sample -48 was not homogenized well before extraction. The TPH was rerun and came out lower. This is the revised report with the corrected data for the TPH on -48. This report will replace the one sent on 02/25/25.

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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (0-1')
H250978-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	560		16.0	mg/kg	4	5022018	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 5021915 JH 20-Feb-25 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	<50.0		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	
DRO >C10-C28*	9580		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	3180		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane 100 % 48.2-134 5021860 MS 20-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 354 % 49.1-148 5021860 MS 20-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (2'-3')
H250978-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	5022018	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134 5021915 JH 20-Feb-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	81.6		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane 93.9 % 48.2-134 5021860 MS 19-Feb-25 8015B

Surrogate: 1-Chlorooctadecane 102 % 49.1-148 5021860 MS 19-Feb-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (3'-4')
H250978-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	5022018	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	5021915	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	46.8		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			87.6 %		48.2-134	5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.3 %		49.1-148	5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (5'-6')
H250978-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	71.5-134	5021915	JH	20-Feb-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B
DRO >C10-C28*	212	10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B
EXT DRO >C28-C36	32.1	10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B

Surrogate: 1-Chlorooctane	91.0 %	48.2-134	5021860	MS	19-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	103 %	49.1-148	5021860	MS	19-Feb-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (7'-8')
H250978-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	5021915	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			81.9 %		48.2-134	5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			89.0 %		49.1-148	5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (9'-10')
H250978-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021915	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			87.8 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			95.5 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (14'-15')**H250978-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	5021915	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			85.6 %		48.2-134	5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.2 %		49.1-148	5021860	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-1 (19'-20')**H250978-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021915	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021915	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %		71.5-134	5021915	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			88.0 %		48.2-134	5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			97.2 %		49.1-148	5021860	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (0-1')
H250978-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021915	JH	21-Feb-25	8021B	
Toluene*	0.339		0.050	mg/kg	50	5021915	JH	21-Feb-25	8021B	
Ethylbenzene*	3.17		0.050	mg/kg	50	5021915	JH	21-Feb-25	8021B	
Total Xylenes*	8.49		0.150	mg/kg	50	5021915	JH	21-Feb-25	8021B	
Total BTEX	12.0		0.300	mg/kg	50	5021915	JH	21-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		245 %	71.5-134			5021915	JH	21-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	169		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	
DRO >C10-C28*	10400		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	2160		50.0	mg/kg	5	5021860	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane		125 %	48.2-134			5021860	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		250 %	49.1-148			5021860	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (2'-3')
H250978-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		123 %		71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	67.5		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	14.9		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		89.0 %		48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		98.9 %		49.1-148		5021860	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (3'-4')
H250978-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			121 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			93.1 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (5'-6')
H250978-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			89.1 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			99.1 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (7'-8')
H250978-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			83.4 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			93.0 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (9'-10')
H250978-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			119 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	16.7		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.6 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			92.8 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-2 (14'-15')**H250978-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			119 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			83.2 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			94.4 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (0-1')
H250978-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	0.110		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		153 %		71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	957		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	175		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		87.2 %		48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		102 %		49.1-148		5021860	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (2'-3')
H250978-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	32.9		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			92.4 %		48.2-134	5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			102 %		49.1-148	5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (3'-4')
H250978-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			122 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			79.8 %	48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			88.9 %	49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (5'-6')
H250978-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		124 %		71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021860	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		91.8 %		48.2-134		5021860	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		104 %		49.1-148		5021860	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (7'-8')
H250978-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			121 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.8 %		48.2-134	5021922	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %		49.1-148	5021922	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (9'-10')
H250978-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	432		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	120 %	71.5-134	5021916	JH	20-Feb-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B

Surrogate: 1-Chlorooctane	82.8 %	48.2-134	5021922	MS	19-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	83.1 %	49.1-148	5021922	MS	19-Feb-25	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (14'-15')**H250978-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	608		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			92.2 %		48.2-134	5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			98.8 %		49.1-148	5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-3 (19'-20')**H250978-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022014	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			121 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			70.1 %		48.2-134	5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			71.0 %		49.1-148	5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (0-1')
H250978-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			131 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	1280		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	356		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			84.6 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			99.0 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (2'-3')
H250978-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			123 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	18.8		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	13.9		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			84.3 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			85.6 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (3'-4')
H250978-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.0 %		48.2-134	5021922	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.9 %		49.1-148	5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (5'-6')
H250978-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			124 %		71.5-134	5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			83.5 %		48.2-134	5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			84.2 %		49.1-148	5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (7'-8')
H250978-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	192		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		120 %		71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		82.5 %		48.2-134		5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		83.8 %		49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-4 (9'-10')
H250978-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021916	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021916	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			120 %	71.5-134		5021916	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	156		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	42.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			84.8 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			87.5 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (0-1')
H250978-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %	71.5-134	5021917	JH	20-Feb-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B
DRO >C10-C28*	378	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B
EXT DRO >C28-C36	123	10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B

Surrogate: 1-Chlorooctane	84.6 %	48.2-134	5021922	MS	19-Feb-25	8015B
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Surrogate: 1-Chlorooctadecane	86.8 %	49.1-148	5021922	MS	19-Feb-25	8015B
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (2'-3')
H250978-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.5 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.0 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (3'-4')
H250978-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			86.0 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			87.6 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (5'-6')
H250978-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	704		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.1 %	48.2-134		5021922	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			80.8 %	49.1-148		5021922	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (7'-8')
H250978-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1060		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			84.7 %		48.2-134	5021922	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			86.0 %		49.1-148	5021922	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (9'-10')
H250978-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	368		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	10.1		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			83.2 %	48.2-134		5021922	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			86.0 %	49.1-148		5021922	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (14'-15')**H250978-36 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	640		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			86.2 %	48.2-134		5021922	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			87.7 %	49.1-148		5021922	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-5 (19'-20')**H250978-37 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	272		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	109 %		71.5-134			5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane	84.9 %		48.2-134			5021922	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane	86.0 %		49.1-148			5021922	MS	20-Feb-25	8015B	
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Cardinal Laboratories

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (0-1')
H250978-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			82.7 %	48.2-134		5021922	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			84.1 %	49.1-148		5021922	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (2'-3')
H250978-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	336		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021922	MS	20-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.3 %	48.2-134		5021922	MS	20-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.4 %	49.1-148		5021922	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (3'-4')
H250978-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		105 %		48.2-134		5021931	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		103 %		49.1-148		5021931	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (5'-6')
H250978-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			118 %	48.2-134		5021931	MS	19-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			118 %	49.1-148		5021931	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (7'-8')
H250978-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			112 %	48.2-134		5021931	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			113 %	49.1-148		5021931	MS	19-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-6 (9'-10')
H250978-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5022019	AC	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane			110 %	48.2-134		5021931	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	49.1-148		5021931	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (0-1')
H250978-44 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	96.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %	71.5-134			5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
DRO >C10-C28*	436		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	
EXT DRO >C28-C36	114		10.0	mg/kg	1	5021931	MS	19-Feb-25	8015B	

Surrogate: 1-Chlorooctane		115 %	48.2-134			5021931	MS	19-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane		118 %	49.1-148			5021931	MS	19-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (2'-3')
H250978-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			112 %	48.2-134		5021931	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	49.1-148		5021931	MS	20-Feb-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (3'-4')
H250978-46 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			115 %	48.2-134		5021931	MS	20-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			116 %	49.1-148		5021931	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (5'-6')
H250978-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	

Surrogate: 1-Chlorooctane			107 %	48.2-134		5021931	MS	20-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		5021931	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (7'-8')
H250978-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			110 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	28-Feb-25	8015B	
DRO >C10-C28*	72.8		10.0	mg/kg	1	5021931	MS	28-Feb-25	8015B	
EXT DRO >C28-C36	14.0		10.0	mg/kg	1	5021931	MS	28-Feb-25	8015B	

Surrogate: 1-Chlorooctane			128 %	48.2-134		5021931	MS	28-Feb-25	8015B	
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Surrogate: 1-Chlorooctadecane			131 %	49.1-148		5021931	MS	28-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

BH-7 (9'-10')
H250978-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	5022015	HM	20-Feb-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5021917	JH	20-Feb-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5021917	JH	20-Feb-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	71.5-134		5021917	JH	20-Feb-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5021931	MS	20-Feb-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			111 %	48.2-134		5021931	MS	20-Feb-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %	49.1-148		5021931	MS	20-Feb-25	8015B	
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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5022014 - 1:4 DI Water**Blank (5022014-BLK1)**

Prepared & Analyzed: 20-Feb-25

Chloride	ND	16.0	mg/kg							
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LCS (5022014-BS1)

Prepared & Analyzed: 20-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (5022014-BSD1)

Prepared & Analyzed: 20-Feb-25

Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
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Batch 5022015 - 1:4 DI Water**Blank (5022015-BLK1)**

Prepared & Analyzed: 20-Feb-25

Chloride	ND	16.0	mg/kg							
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LCS (5022015-BS1)

Prepared & Analyzed: 20-Feb-25

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (5022015-BSD1)

Prepared & Analyzed: 20-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	
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Batch 5022018 - 1:4 DI Water**Blank (5022018-BLK1)**

Prepared & Analyzed: 20-Feb-25

Chloride	ND	16.0	mg/kg							
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LCS (5022018-BS1)

Prepared & Analyzed: 20-Feb-25

Chloride	432	16.0	mg/kg	400		108	80-120			
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5022018 - 1:4 DI Water**LCS Dup (5022018-BSD1)**

Prepared & Analyzed: 20-Feb-25

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20
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Batch 5022019 - 1:4 DI Water**Blank (5022019-BLK1)**

Prepared & Analyzed: 20-Feb-25

Chloride	ND	16.0	mg/kg
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LCS (5022019-BS1)

Prepared & Analyzed: 20-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (5022019-BSD1)

Prepared & Analyzed: 20-Feb-25

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021915 - Volatiles**Blank (5021915-BLK1)**

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0594		mg/kg	0.0500		119	71.5-134			

LCS (5021915-BS1)

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	2.02	0.050	mg/kg	2.00		101	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.41	0.050	mg/kg	2.00		121	85.9-128			
m,p-Xylene	4.87	0.100	mg/kg	4.00		122	89-129			
o-Xylene	2.44	0.050	mg/kg	2.00		122	86.1-125			
Total Xylenes	7.31	0.150	mg/kg	6.00		122	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0570		mg/kg	0.0500		114	71.5-134			

LCS Dup (5021915-BS1)

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	2.05	0.050	mg/kg	2.00		103	82.8-130	1.68	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	86-128	2.94	15.9	
Ethylbenzene	2.32	0.050	mg/kg	2.00		116	85.9-128	3.82	16	
m,p-Xylene	4.67	0.100	mg/kg	4.00		117	89-129	4.30	16.2	
o-Xylene	2.35	0.050	mg/kg	2.00		117	86.1-125	3.76	16.7	
Total Xylenes	7.01	0.150	mg/kg	6.00		117	88.2-128	4.12	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0556		mg/kg	0.0500		111	71.5-134			

Batch 5021916 - Volatiles**Blank (5021916-BLK1)**

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021916 - Volatiles**Blank (5021916-BLK1)**

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0602		mg/kg	0.0500		120	71.5-134			

LCS (5021916-BS1)

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	2.11	0.050	mg/kg	2.00		105	82.8-130			
Toluene	2.21	0.050	mg/kg	2.00		111	86-128			
Ethylbenzene	2.32	0.050	mg/kg	2.00		116	85.9-128			
m,p-Xylene	4.73	0.100	mg/kg	4.00		118	89-129			
o-Xylene	2.36	0.050	mg/kg	2.00		118	86.1-125			
Total Xylenes	7.09	0.150	mg/kg	6.00		118	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500		108	71.5-134			

LCS Dup (5021916-BS1)

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	1.98	0.050	mg/kg	2.00		99.1	82.8-130	6.22	15.8	
Toluene	2.06	0.050	mg/kg	2.00		103	86-128	7.16	15.9	
Ethylbenzene	2.16	0.050	mg/kg	2.00		108	85.9-128	7.28	16	
m,p-Xylene	4.42	0.100	mg/kg	4.00		111	89-129	6.75	16.2	
o-Xylene	2.22	0.050	mg/kg	2.00		111	86.1-125	6.26	16.7	
Total Xylenes	6.64	0.150	mg/kg	6.00		111	88.2-128	6.59	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0535		mg/kg	0.0500		107	71.5-134			

Batch 5021917 - Volatiles**Blank (5021917-BLK1)**

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0545		mg/kg	0.0500		109	71.5-134			

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021917 - Volatiles**LCS (5021917-BS1)**

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	1.82	0.050	mg/kg	2.00		91.0	82.8-130		
Toluene	2.02	0.050	mg/kg	2.00		101	86-128		
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128		
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89-129		
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125		
Total Xylenes	6.44	0.150	mg/kg	6.00		107	88.2-128		

Surrogate: 4-Bromofluorobenzene (PID) 0.0518 mg/kg 0.0500 104 71.5-134

LCS Dup (5021917-BSD1)

Prepared: 19-Feb-25 Analyzed: 20-Feb-25

Benzene	1.80	0.050	mg/kg	2.00		90.0	82.8-130	1.11	15.8
Toluene	2.01	0.050	mg/kg	2.00		100	86-128	0.555	15.9
Ethylbenzene	2.13	0.050	mg/kg	2.00		107	85.9-128	0.0478	16
m,p-Xylene	4.33	0.100	mg/kg	4.00		108	89-129	0.264	16.2
o-Xylene	2.09	0.050	mg/kg	2.00		104	86.1-125	1.17	16.7
Total Xylenes	6.42	0.150	mg/kg	6.00		107	88.2-128	0.203	16.3

Surrogate: 4-Bromofluorobenzene (PID) 0.0512 mg/kg 0.0500 102 71.5-134

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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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5021860 - General Prep - Organics**Blank (5021860-BLK1)**

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.9	48.2-134		
Surrogate: 1-Chlorooctadecane	40.4		mg/kg	50.0		80.9	49.1-148		

LCS (5021860-BS1)

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	183	10.0	mg/kg	200		91.5	81.5-123		
DRO >C10-C28	172	10.0	mg/kg	200		85.8	77.7-122		
Total TPH C6-C28	355	10.0	mg/kg	400		88.6	80.9-121		
Surrogate: 1-Chlorooctane	40.7		mg/kg	50.0		81.4	48.2-134		
Surrogate: 1-Chlorooctadecane	41.3		mg/kg	50.0		82.5	49.1-148		

LCS Dup (5021860-BS1)

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	192	10.0	mg/kg	200		96.2	81.5-123	4.95	13
DRO >C10-C28	197	10.0	mg/kg	200		98.5	77.7-122	13.8	15.6
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	80.9-121	9.34	18.5
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.5	48.2-134		
Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.8	49.1-148		

Batch 5021922 - General Prep - Organics**Blank (5021922-BLK1)**

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	34.4		mg/kg	50.0		68.8	48.2-134		
Surrogate: 1-Chlorooctadecane	34.3		mg/kg	50.0		68.6	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:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 5021922 - General Prep - Organics**LCS (5021922-BS1)**

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	179	10.0	mg/kg	200		89.5	81.5-123		
DRO >C10-C28	168	10.0	mg/kg	200		84.1	77.7-122		
Total TPH C6-C28	347	10.0	mg/kg	400		86.8	80.9-121		
Surrogate: 1-Chlorooctane	36.4		mg/kg	50.0		72.8	48.2-134		
Surrogate: 1-Chlorooctadecane	37.3		mg/kg	50.0		74.7	49.1-148		

LCS Dup (5021922-BS1)

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	188	10.0	mg/kg	200		94.2	81.5-123	5.14	13
DRO >C10-C28	181	10.0	mg/kg	200		90.4	77.7-122	7.16	15.6
Total TPH C6-C28	369	10.0	mg/kg	400		92.3	80.9-121	6.12	18.5
Surrogate: 1-Chlorooctane	37.9		mg/kg	50.0		75.9	48.2-134		
Surrogate: 1-Chlorooctadecane	38.8		mg/kg	50.0		77.6	49.1-148		

Batch 5021931 - General Prep - Organics**Blank (5021931-BLK1)**

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	61.2		mg/kg	50.0		122	48.2-134		
Surrogate: 1-Chlorooctadecane	62.6		mg/kg	50.0		125	49.1-148		

LCS (5021931-BS1)

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	227	10.0	mg/kg	200		113	81.5-123		
DRO >C10-C28	227	10.0	mg/kg	200		114	77.7-122		
Total TPH C6-C28	454	10.0	mg/kg	400		113	80.9-121		
Surrogate: 1-Chlorooctane	56.1		mg/kg	50.0		112	48.2-134		
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: HAUMEA STATE #002H BATTERY F
Project Number: 212C-MD-03585A
Project Manager: LISBETH CHAVIRA
Fax To: (432) 682-3946

Reported:
06-Mar-25 18:14

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 5021931 - General Prep - Organics**LCS Dup (5021931-BSD1)**

Prepared & Analyzed: 19-Feb-25

GRO C6-C10	233	10.0	mg/kg	200		116	81.5-123	2.62	13	
DRO >C10-C28	225	10.0	mg/kg	200		113	77.7-122	0.739	15.6	
Total TPH C6-C28	458	10.0	mg/kg	400		115	80.9-121	0.950	18.5	
Surrogate: 1-Chlorooctane	54.7		mg/kg	50.0		109	48.2-134			
Surrogate: 1-Chlorooctadecane	54.6		mg/kg	50.0		109	49.1-148			

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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 cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Lisbeth Chavira

P.O. #:

Address: 8911 Capital o Texas Hwy, Suite 2310

Company: Tetra Tech

City: Austin

State: TX Zip:

Attn: Lisbeth Chavira

Phone #: (512)565-0190

Fax #:

Address: EMAIL

Project #:

Project Owner: ConocoPhillips

City:

Project Name: Haunaea State #002H Battery Release

State:

Project Location: Lea County, New Mexico

Zip:

Sampler Name: Colton Bickerstaff

Phone #:

FOR LAB USE ONLY

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX					DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE											
1	BH-1 (0-1')	G	1	X					2/18/2025		X	X	X						
2	BH-1 (2-3')	G	1	X					2/18/2025		X	X	X						
3	BH-1 (3-4')	G	1	X					2/18/2025		X	X	X						
4	BH-1 (5-6')	G	1	X					2/18/2025		X	X	X						
5	BH-1 (7-8')	G	1	X					2/18/2025		X	X	X						
6	BH-1 (9-10')	G	1	X					2/18/2025		X	X	X						
7	BH-1 (14-15')	G	1	X					2/18/2025		X	X	X						
8	BH-1 (19-20')	G	1	X					2/18/2025		X	X	X						
9	BH-2 (0-1')	G	1	X					2/18/2025		X	X	X						
10	BH-2 (2-3')	G	1	X					2/18/2025		X	X	X						

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Relinquished By: Colton Bickerstaff

Date: 2/19/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 0901

Received By:

REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: ☐ Standard ☐ Expedited (only) Sample Condition

Thermometer ID: #1140
Correction Factor: -0.3°C

Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Lisbeth Chavira

P.O. #:

Address: 8911 Capital o Texas Hwy, Suite 2310

Company: Tetra Tech

City: Austin

State: TX Zip:

Attn: Lisbeth Chavira

Phone #: (512)565-0190 Fax #:

Address: EMAIL

Project #: 212C-MD-03585A Project Owner: ConocoPhillips

City:

Project Name: Haunaea State #002H Battery Release

State:

Project Location: Lea County, New Mexico

Zip:

Sampler Name: Colton Bickert

Phone #:

Lab I.D.

Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500Cl-B						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE												
H250918	BH-2 (3-4)	G	1	X						2/18/2025		X	X	X						
	BH-2 (5-6)	G	1	X						2/18/2025		X	X	X						
	BH-2 (7-8)	G	1	X						2/18/2025		X	X	X						
	BH-2 (9-10)	G	1	X						2/18/2025		X	X	X						
	BH-2 (14-15)	G	1	X						2/18/2025		X	X	X						
	BH-3 (0-1)	G	1	X						2/18/2025		X	X	X						
	BH-3 (2-3)	G	1	X						2/18/2025		X	X	X						
	BH-3 (3-4)	G	1	X						2/18/2025		X	X	X						
	BH-3 (5-6)	G	1	X						2/18/2025		X	X	X						
	BH-3 (7-8)	G	1	X						2/18/2025		X	X	X						

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Relinquished By: Colton Bickert

Date: 2/19/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Received By:

REMARKS:

Time:

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY:

Turnaround Time:

Standard ☐ Cool ☐ (only) Sample Condition

Thermometer ID #140

Correction Factor 0.3°C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

Yes ☐ No ☐

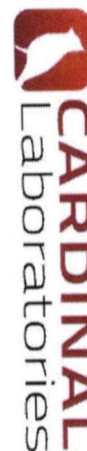
Yes ☐ No ☐

FORM-006 R 3.2 10/07/21

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[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		P.O. #:		ANALYSIS REQUEST	
Project Manager: Lisbeth Chavira		Company: Tetra Tech			
Address: 8911 Capital o Texas Hwy, Suite 2310		Attn: Lisbeth Chavira			
City: Austin		Address: EMAIL			
Phone #: (512)565-0190		City:			
Fax #: (512)565-0190		State:			
Project #: 212C-MD-03585A		Project Owner: ConocoPhillips			
Project Name: Haumea State #002H Battery Release		State:			
Project Location: Lea County, New Mexico		City:			
Sample Name: Colton Bickerstaff		Phone #:			
Fax #:		Zip:			
Lab I.D.		Sample I.D.			
Time: 2:00 PM		Date: 2/18/2025			
Corrected Temp. °C: 2.0°C		Sample Condition: Cool Intact			
Sample - UPS - Bus - Other:		CHECKED BY: (Initials)			
Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:			
REMARKS:		All Results are emailed. Please provide Email address: Lisbeth.Chavira@tetratech.com			
Thermometer ID: 4419		Thermometer ID: 4419			
Correction Factor: 0.05		Correction Factor: 0.05			
Observed Temp. °C: 2.0°C		Observed Temp. °C: 2.0°C			
Corrected Temp. °C: 2.0°C		Corrected Temp. °C: 2.0°C			

Page 65 of 66



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech

BILL TO

ANALYSIS REQUEST

Project Manager: Lisbeth Chavira

P.O. #:

Address: 8911 Capital o Texas Hwy, Suite 2310

Company: Tetra Tech

City: Austin

State: TX Zip:

Attn: Lisbeth Chavira

Phone #: (512)565-0190

Fax #:

Address: EMAIL

Project #:

Project Owner:

ConocoPhillips

City:

Project Name: Haunnea State #002H Battery Release

State: Zip:

Project Location: Lea County, New Mexico

Phone #:

Sampler Name: Colton Bickelstaft

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

FOR LAB USE ONLY		Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Lab I.D.					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's remedies for any claim arising under this contract 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 loss of 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: Colton Bickelstaft

Date: 2/19/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date:

Received By:

REMARKS:

Please provide Email address: Lisbeth.Chavira@tetratech.com

Delivered By: (Circle One)

Observed Temp. °C

Sample Condition

CHECKED BY: (Initials)

Thermometer ID

Correction Factor

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Yes ☒ No ☐

Thermometer ID

Correction Factor

Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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

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

QUESTIONS

Action 464771

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2411866719
Incident Name	NAPP2411866719 HAUMEA STATE 2H @ 0
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203945340] Haumea St 2H Battery

Location of Release Source*Please answer all the questions in this group.*

Site Name	HAUMEA STATE 2H
Date Release Discovered	04/26/2024
Surface Owner	State

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: Other Other (Specify) Crude Oil Released: 375 BBL Recovered: 350 BBL Lost: 25 BBL.
Produced Water Released (bbls) Details	Cause: Other Other (Specify) Produced Water Released: 375 BBL Recovered: 350 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	In April 2022, Maverick Permian, LLC acquired the Haumea State 2H, although the NMOCD database does not reflect them as the operator. Following the incident, Maverick Permian, LLC did not respond, prompting ConocoPhillips, being a prudent operator, took action. ConocoPhillips addressed the situation by securing the source, ceasing well operations, and initiating the recovery of the released fluid.

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QUESTIONS, Page 2

Action 464771

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 05/19/2025
----------------------------------------------------	--------------------------------------------------------------------------------------------------------------

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QUESTIONS, Page 3

Action 464771

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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 ½ and 1 (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 ½ and 1 (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	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1250
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	17733
GRO+DRO (EPA SW-846 Method 8015M)	14300
BTEX (EPA SW-846 Method 8021B or 8260B)	5
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/19/2025
On what date will (or did) the final sampling or liner inspection occur	08/26/2025
On what date will (or was) the remediation complete(d)	08/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	6888
What is the estimated volume (in cubic yards) that will be reclaimed	548
What is the estimated surface area (in square feet) that will be remediated	6888
What is the estimated volume (in cubic yards) that will be remediated	548
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 464771

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: Christian LLuLL Title: Project Manager Email: christian.llull@tetrattech.com Date: 05/19/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 464771

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 464771

QUESTIONS (continued)

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	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

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

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CONDITIONS

Action 464771

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 464771
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation workplan approved.	5/20/2025
amaxwell	Variance request for alternative OCD closure limits for TPH and chloride is denied. Depth to groundwater is less than 50 feet.	5/20/2025
amaxwell	Variance request to collect confirmation closure samples every 400sq feet is approved.	5/20/2025
amaxwell	Submit a report via the OCD permitting portal by August 18, 2025.	5/20/2025