



December 18, 2024

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

**Re: Release Characterization and Remediation Work Plan
ConocoPhillips
Deckard Federal Com #002H Flowline Release
Unit Letter C, Section 13, Township 24 South, and Range 33 East
Lea County, New Mexico
Incident ID NAPP2418342470
Landowner: Private**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess and evaluate a release that occurred from a flowline associated with the Deckard Federal Com #002H (Facility ID fAPP2203454442). The release footprint is located in Public Land Survey System (PLSS) Unit Letter C, Section 13, Township 24 South, and Range 33 East, Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.224494° -103.528803°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico initial C-141 Form, the release was discovered on June 21, 2024. The release was caused by a corrosion on a subsurface production flow line. The initial C-141 reports that 3 barrels (bbls) of crude oil and 5 bbls of produced water were released, with no fluids recovered. The Initial C-141 Report was submitted to the NMOCD on July 1, 2024 and assigned the Incident ID NAPP2418342470. The initial C-141 is included as Appendix A.

According to the NMOCD Oil and Gas Map, the Site is located on private lands associated with Quail Ranch. Site remediation activities will be conducted in coordination with the landowner.

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).

A summary of the site characterization is presented below:

Shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (feet bgs)	Between 100 ft and 500 ft
Method used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water?	No

Tetra Tech

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<u>What is the minimum distance between the closest lateral extents of the release and the following surface areas:</u>	
A continuously flowing watercourse or any other significant watercourse	Between 1 mi. and 5 mi.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 mi. and 5 mi.
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 miles
A spring or private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1/2 mi. and 1 mi.
Any other fresh water well or spring	Between 1/2 mi. and 1 mi.
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 miles
A wetland	Between 1/2 mi. and 1 mi.
A subsurface mine	Greater than 5 miles
A (non-karst) unstable area	Between 1 mi. and 5 mi.
Categorized risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 miles
Did the release impact areas not on an exploration, development, production, or storage site?	No

There are no water wells listed in the New Mexico Office of the State Engineer (NMOSE) database located within approximately 0.5 miles (800 meters) of the Site. There are two water wells with recent groundwater data located within approximately 0.8 miles (1,300 meters) from the Site with an average depth to water of 405 feet below ground surface (bgs).

Upon review of the OCD Imaging files, a well record & log for a groundwater determination boring located approximately 0.58 miles east-northeast of the release area was discovered in association with Incident ID # NAPP2403957544. This boring was drilled in June 2024 to a total depth of 105 feet bgs, with no groundwater encountered. Based on prior correspondence with the NMOCD, this boring is located within the discretionary limit to establish the depth to groundwater for the release site.

The site characterization data, including a copy of the groundwater determination boring, are presented in Appendix B.

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 (high karst) and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	20,000 mg/kg
Total TPH	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule (19.15.29 NMAC)* (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

Constituent	Reclamation Requirements
Chloride	600 mg/kg
TPH	100 mg/kg

INITIAL RESPONSE AND REMEDIAL ACTIVITIES

In accordance with 19.15.29.8. B. (4) NMAC that states “the responsible party may commence remediation immediately after discovery of a release,” ConocoPhillips elected to begin remediation of the impacted area in April 2024. Initial response remedial actions were performed at the release site, and visually stained areas were scraped to remove impacted materials (approximately 1700 square feet). The impacted material was scraped to approximately 12 inches below ground surface, resulting in approximately 200-300 cubic yards of material being removed and disposed of at a permitted facility. The initial response extent is indicated in Figure 3. Photographic documentation of the release and initial response activities is included in Appendix C.

INITIAL SITE ASSESSMENT

Carmona Resources, LLC performed initial release assessment activities on behalf of ConocoPhillips. Of note, documentation provided by Carmona Resources, LLC identifies the Site as Deckard Fed Com 3H (rather than 2H, as documented with the NMOCD). According to photographic documentation provided by ConocoPhillips, the release occurred in pasture adjacent to the Deckard Fee 2H Battery facility (on a pad shared with the Deckard Federal Com #002H well / API 30-025-41382).

On July 11, 2024, three (3) auger holes (S-1 through S-3) were installed within the release extent using a hand auger to 8 feet below ground surface (bgs). Based on photograph evidence and the sampling dates, it appears that sampling and the initial response scrape occurred on the same day. It is apparent from the sampling depth intervals that soil samples were collected from after the scrape occurred. Six (6) horizontal delineation samples (H-1 through H-6) were collected from 0-0.5 feet bgs outside of the release footprint.

A total of thirty (30) soil samples were collected and sent 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 D.

Analytical results are summarized in Table 1. The soil analytical results from the initial assessment exceeded the 19.15.29 NMAC Table I delineation criteria of 100 mg/kg for total TPH in all of the samples collected from sample locations S-1 through S-3. Analytical results exceeded the Table 1 delineation criteria of 50 mg/kg for BTEX and 600 mg/kg for chlorides in nearly all of the samples collected from these three borings. All of the horizontal delineation sampling results were below the Table 1 delineation criteria.

ADDITIONAL SITE ASSESSMENT

On behalf of ConocoPhillips, Tetra Tech conducted additional soil assessment activities at the release Site to complete vertical delineation of the release. On September 26, 2024, Tetra Tech personnel oversaw the installation of four (4) borings (BH-1 through BH-4) using a direct push drill rig within the release extent. The boring locations are presented in Figure 3. Photographic documentation of the Site conditions during the additional assessment activities is included in Appendix C. Boring logs from the additional assessment activities are included in Appendix E.

A total of forty (40) soil samples were collected and sent 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 D.

Analytical results are summarized in Table 1. Surface soils at all four boring locations exceeded the Site reclamation limits for chlorides, benzene, total BTEX, and/or total TPH. Subsurface soils exceeded the Site RRAL for benzene, total BTEX, and/or total TPH in all four locations at depths ranging from 5 feet bgs (BH-2) to 10 feet bgs (BH-1 and BH-4). Vertical delineation of the release was achieved following the additional assessment.

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 soil on the Site. The release occurred immediately behind the tank battery in the pasture in a ConocoPhillips pipeline right-of-way, which contains three (3) subsurface steel pressurized production and gas lines (located approximately 4 feet bgs). The three lines along the right-of-way are approximately 10 feet apart. The center line, which was the source of the release, was placed out of service and the remaining two lines remain active. To access the impacted soils, the inactive center line will be cut and removed, which will leave approximately 20 feet between the remaining lines.

The subsurface soils at the Site consist of sand formation to a depth of approximately 9-13 feet below surface and transitions to a semi-dense formation (see Appendix E). ConocoPhillips will attempt to remove the impacted soils to a depth of 7 feet to 15 feet below surface. 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. Based on a review of the soil boring logs from the site assessment activities, the soils in the release extent are classified as Type C (non-cohesive), which require a maximum allowable slope of 1.5:1. Safety concerns at the Site include sloughing of the sandy soils at the edges of the excavation beneath the active production lines, not allowing us to brace the lines. ConocoPhillips will remove the impacted soil to the maximum extent practicable.

If the deeper excavation cannot be safely excavated or sloped, ConocoPhillips will explore options to prevent a cave-in or the destabilization of onsite equipment or lines. However, if these options are not viable, ConocoPhillips will consult with NMOCD for an alternative remediation option for a path forward for the remaining deeper impacted soils. The approximate proposed excavation depths and surrounding area for benching and sloping are indicated in Figure 4.

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 4.

The assessment indicates subsurface impacts in the release extent which exceeded the Site RRALs for benzene, total BTEX, and/or total TPH at depths in the upper 10 feet bgs in areas immediately under and around the shallow pressurized production lines. ConocoPhillips proposes to remove the impacted material to a depth of approximately 10 feet below ground surface or to the maximum extent practicable (or until a representative sample from the walls and bottom of the excavation is below the Site RRALs) in the area of BH-4. The areas of BH-1, BH-2, and BH-3 will be excavated to approximately 9 feet bgs. The surrounding areas between the production lines will be excavated to approximately 4 feet bgs and then sloped to the terminal depths along the center of the release extent, as indicated in Figure 4.

In the event that confirmation floor sampling results indicate exceedances of RRALs, and deeper excavation cannot be performed due to safety concerns, the NMOCD will be consulted to determine if in-situ treatment options (e.g. Microblaze) can be utilized at depth.

Heavy equipment (backhoe and mini-excavator) will be utilized to excavate areas outside the immediate vicinity of pressurized lines and will come no more than 2 feet from any pressurized lines. Any area within

Release Characterization and Remediation Work Plan
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ConocoPhillips

2 feet of pressurized lines or vessels will be addressed with non-mechanical methods (hydro-excavation or hand dig) to a maximum depth of 2 feet bgs.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. The estimated volume of material to be remediated is approximately 380 cubic yards.

Confirmation bottom and sidewall samples representative of no more than 200 square feet will be collected for verification of remedial activities, and analyzed for TPH (Method 8015 modified), BTEX (Method 8021B), and chloride (Method SM4500Cl-B). The proposed excavation encompasses a surface area of approximately 2,125 square feet. Once results are received, the excavation will then be backfilled with clean material to surface grade.

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 the Notification of Sampling (C-141N) application.

SITE RECLAMATION AND MONITORING PLAN

Reclamation activities will be implemented in consultation with the landowner. Based on 19.15.29.13 NMAC, all areas disturbed by the remediation and closure will be reclaimed once confirmation sampling results below the reclamation requirements (or RRALs, respectively, for areas below 4 feet bgs) are received. Once acceptable confirmation sample results are received, the excavation will be backfilled with clean material to pre-release grade. In accordance with 19.15.29.12 NMAC, the reclaimed area will contain a minimum of 4 feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as verified by analysis of backfill source material via Standard Method 4500Cl-B. The soil cover will include a top layer consisting of 1 foot of suitable material to establish vegetation at the Site.

The backfilled areas in the pasture will be seeded following backfilling, to aid in revegetation. Based on the soils at the Site, areas will be seeded with the BLM seed mixture for LPC Sand/Shinnery Sites and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

CONCLUSION

ConocoPhillips proposes to begin remediation activities at the Site within 120 days 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) 739-7874 or email at sam.abbott@tetratech.com.

Sincerely,

Tetra Tech, Inc.



Samantha Abbott, P.G.
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 – Proposed Remediation Extent

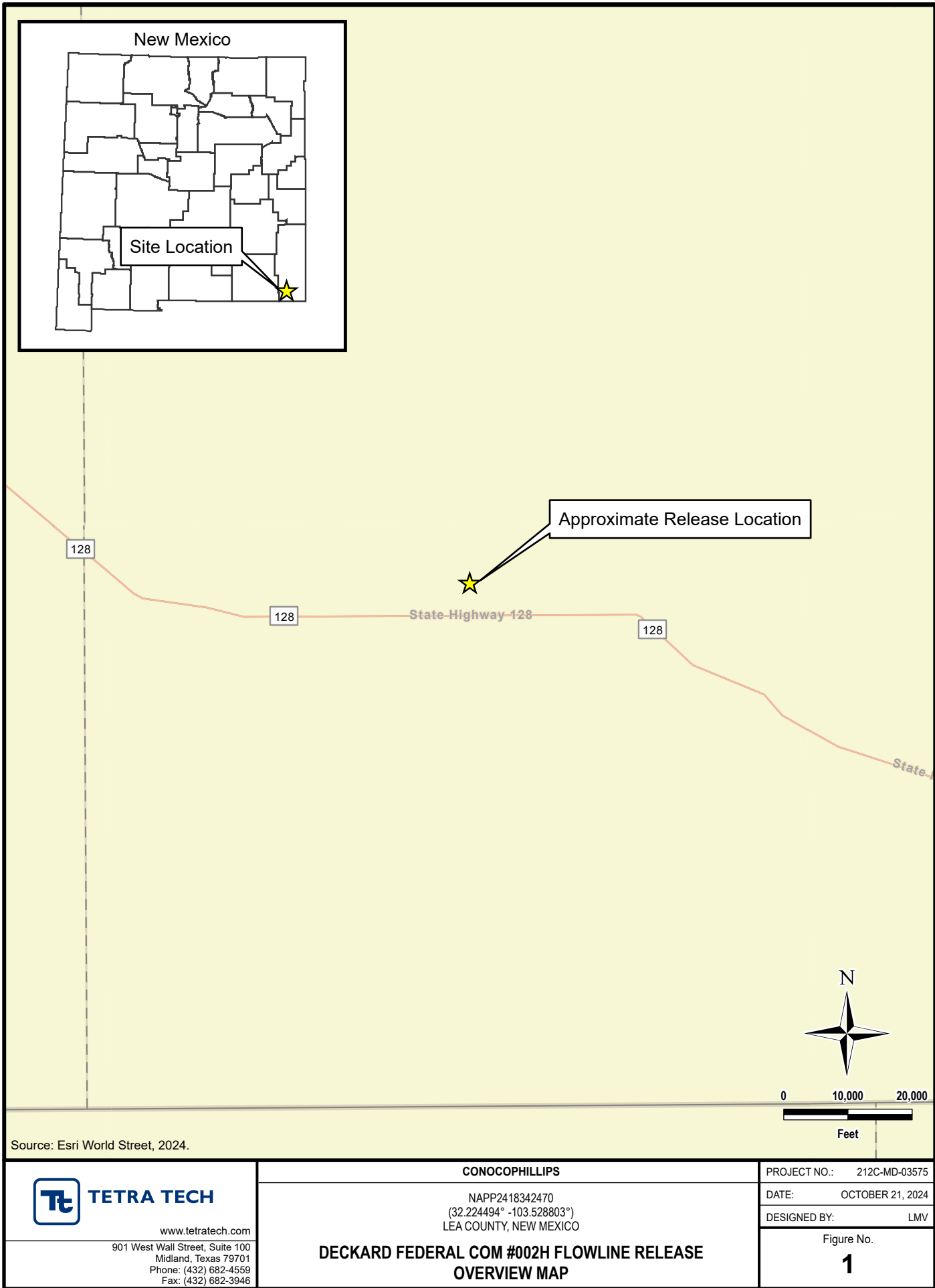
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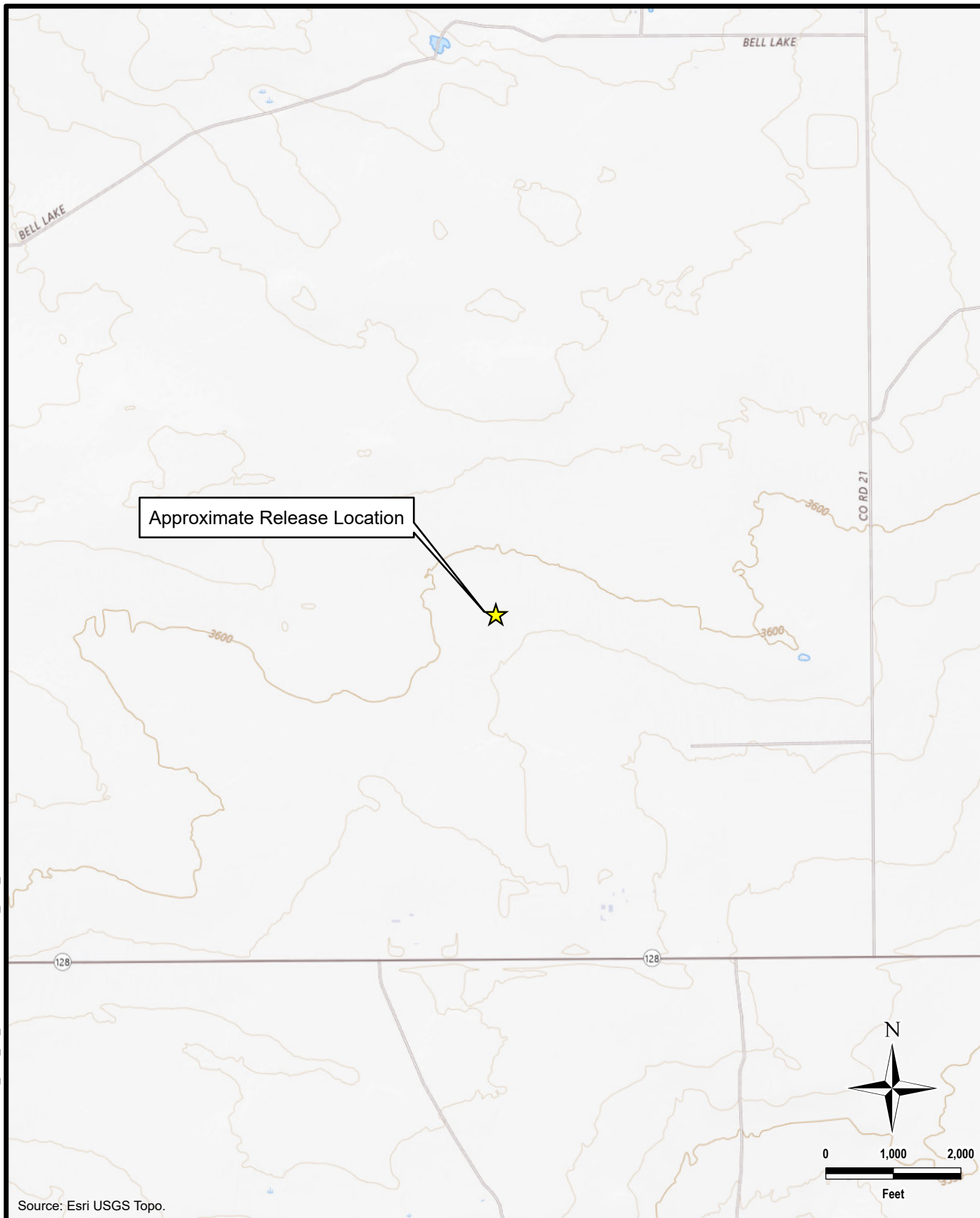
- Table 1 – Summary of Analytical Results – Soil Assessment

Appendices:

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

FIGURES





Source: Esri USGS Topo.



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CONOCOPHILLIPS

NAPP2418342470
(32.224494° -103.528803°)
LEA COUNTY, NEW MEXICO

**DECKARD FEDERAL COM #002H FLOWLINE RELEASE
TOPOGRAPHIC MAP**

PROJECT NO.: 212C-MD-03575

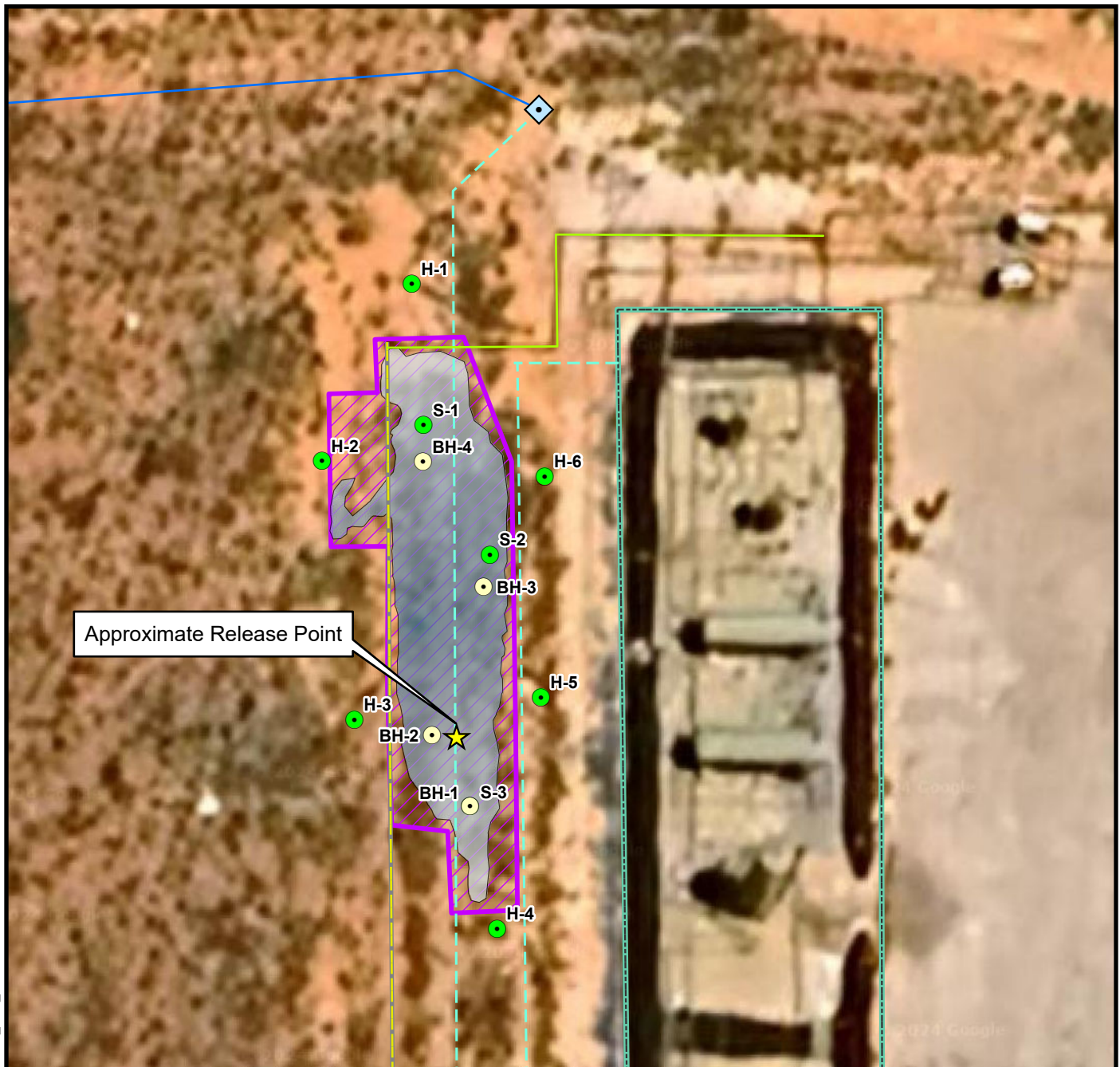
DATE: OCTOBER 21, 2024

DESIGNED BY: LMV

Figure No.

2

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Legend

- Initial Assessment Hand Auger Location
- Additional Assessment Geoprobe Boring Location
- ◆ Steel Barrier Riser
- Approximate Release Extent
- Initial Response Excavation Extent – 1' bgs
- Approximate Extent of Battery
- COG Buried Flex Water Line
- COG Buried Gas Flow Line
- - - COG Buried Production Flow Line
- Steel Production Line

BGS: Below Ground Surface
Source: Google Earth, 2023.



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**DECKARD FEDERAL COM #002H FLOWLINE RELEASE
SITE ASSESSMENT MAP**

PROJECT NO.: 212C-MD-03575

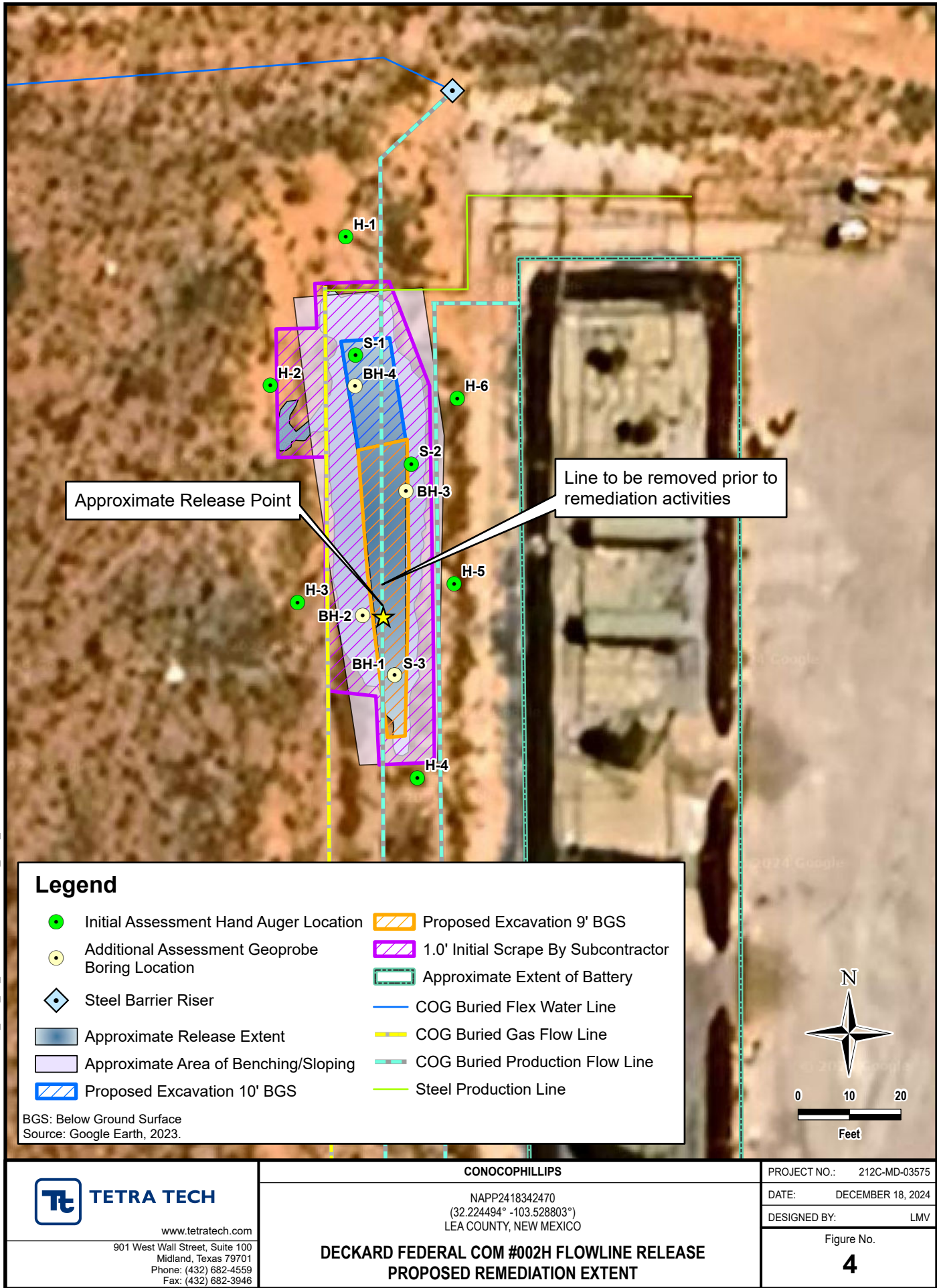
DATE: OCTOBER 21, 2024

DESIGNED BY: LMV

Figure No.

3

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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT - NAPP2418342470
CONOCOPHILLIPS
DECKARD FEDERAL COM #002H
LEA, NEW MEXICO

Sample ID	Sample Date	Sample Depth Interval	Field Screening Results		Chlorides ¹	BTEx ²					TPH ³			
			Chlorides	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEx	GRO	DRO	EXT DRO	Total TPH (GRO+DRO+EXT DRO)
		ft. bgs	ppm		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Reclamation Closure Criteria for Soils 0-4 ft bgs:					600 mg/kg	10 mg/kg	--	--	--	50 mg/kg	--	--	--	100 mg/kg
Site RRALs for Subsurface (>4 ft bgs) Soils (GW >100 ft):					20,000 mg/kg	10 mg/kg	--	--	--	50 mg/kg	--	--	--	2,500 mg/kg
VERTICAL DELINEATION SOIL SAMPLES														
S-1	7/11/2024	1.5	-	-	1,100	24.3	306	97.4	533	960	12,100	24,400	4,280	40,780
		2	-	-	4,280	35.2	264	77.4	322	699	7,570	12,500	2,180	22,250
		3	-	-	4,400	59.4	298	80.8	325	763	11,900	15,600	2,690	30,190
		4	-	-	4,480	47.6	274	79.2	323	724	11,100	16,800	2,920	30,820
		5	-	-	3,840	64.5	395	100	420	979	10,000	16,900	2,860	29,760
		6	-	-	3,040	44.0	357	98.3	417	916	9,830	18,300	3,070	31,200
		7	-	-	2,480	63.2	411	99.0	413	986	9,560	14,500	2,450	26,510
		8	-	-	2,600	32.5	295	83.5	333	744	7,870	15,000	2,380	25,250
S-2	7/11/2024	1.5	-	-	2,800	15.1	198	55.7	227	495	5,740	11,900	2,010	19,650
		2	-	-	1,800	16.4	163	32.6	212	424	6,050	12,700	2,190	20,940
		3	-	-	2,080	8.24	69.8	10.1	103	191	2,530	6,790	1,180	10,500
		4	-	-	1,520	6.39	57.2	7.03	90.5	161	2,220	6,480	1,150	9,850
		5	-	-	896	10.3	73.3	17.6	135	236	4,230	11,200	1,420	16,850
		6	-	-	496	3.26	26.3	5.05	65.1	99.7	2,310	7,900	1,010	11,220
		7	-	-	80	<0.050	0.12	<0.050	0.21	0.33	<10.0	128	12	140
		8	-	-	112	<0.050	0.15	0.14	0.39	0.68	20.3	303	41.4	364.7
S-3	7/11/2024	1.5	-	-	3,680	11.9	129	38.8	178	357	4,220	9,010	1,570	14,800
		2	-	-	3,920	15.8	175	53	211	454	6,080	11,700	1,890	19,670
		3	-	-	2,800	21.0	186	54.5	208	470	4,850	10,300	1,850	17,000
		4	-	-	1,880	37.8	186	78.1	280	583	8,510	14,700	2,560	25,770
		5	-	-	1,500	36.5	233	84	302	655	9,140	15,600	1,910	26,650
		6	-	-	1,880	39.3	247	88.70	316	691	10,200	17,700	2,190	30,090
		7	-	-	1,280	78.9	397	133	466	1,080	15,300	23,100	2,880	41,280
		8	-	-	1,460	38.2	216	76.7	274	605	8,870	14,900	1,820	25,590
BH-1	9/26/2024	0-1	-	-	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		2-3	-	-	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		3-4	-	-	128	<0.050	<0.050	<0.050	0.198	<0.300	<10.0	162	32.2	194.2
		4-5	-	-	1,010	<0.200	9.28	7.53	40.7	57.5	1,090	8,250	1,180	10,520
		6-7	-	-	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	176	31.7	207.7
		8-9	-	-	624	2.44	51.9	20.2	110	185	2,640	7,750	1,050	11,440
		9-10	1,400	1,000	1,340	<0.050	0.290	0.185	3.99	4.47	261	1,480	217	1,958
		14-15	50	375	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	30	675	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	103	12.3	115.3
24-25	-	510	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.6	<10.0	84.6		
BH-2	9/26/2024	0-1	-	-	2,280	<0.050	0.189	0.252	4.51	4.95	318	5,870	885	7,073
		2-3	-	-	3,040	19.2	208	40.9	258	527	7,690	14,900	1,990	24,580
		3-4	-	-	912	16.6	194	54.8	203	468	7,750	13,500	1,820	23,070
		4-5	-	-	32.0	<1.00	36.6	24.4	97.3	158	2,570	7,820	1,040	11,430
		6-7	-	-	80.0	<0.050	0.151	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		8-9	-	-	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.5	<10.0	31.5
		9-10	26	300	2,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		14-15	8	389	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
		19-20	10	250	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-

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DECKARD FEDERAL COM #002H
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			Chlorides	PID		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Total TPH (GRO+DRO+EXT DRO)
		ft. bgs	ppm		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Reclamation Closure Criteria for Soils 0-4 ft bgs:					600 mg/kg	10 mg/kg	--	--	--	50 mg/kg	--	--	--	100 mg/kg
Site RRALs for Subsurface (>4 ft bgs) Soils (GW >100 ft):					20,000 mg/kg	10 mg/kg	--	--	--	50 mg/kg	--	--	--	2,500 mg/kg
BH-3	9/26/2024	0-1	-	-	96.0	0.115	0.352	<0.050	0.241	0.708	24.2	5,610	1,440	7,074
		2-3	-	-	2,270	11.9	100	16.0	158	287	2,770	6,660	1,080	10,510
		3-4	-	-	2,040	34.0	276	66.1	315	691	6,780	12,900	1,970	21,650
		4-5	-	-	1,360	12.1	148	41.4	190	392	3,680	8,130	1,190	13,000
		6-7	-	-	1,520	22.8	234	64.4	270	591	7,430	14,300	2,050	23,780
		8-9	-	-	512	14.3	168	50.0	215	447	4,960	9,990	1,380	16,330
		9-10	81	20	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
14-15	306	3	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-		
BH-4	9/26/2024	0-1	-	-	1,150	0.204	0.752	0.760	5.71	7.43	436	5,560	1,010	7,006
		2-3	-	-	4,720	42.7	201	47.9	195	487	4,320	7,130	1,010	12,460
		3-4	-	-	3,520	31.4	236	61.6	249	578	6,980	11,800	1,700	20,480
		4-5	-	-	2,000	13.3	141	41.0	176	371	4,170	8,430	1,160	13,760
		6-7	-	-	1,880	12.6	130	36.1	166	345	3,500	7,500	1,070	12,070
		8-9	-	-	1,840	59.6	392	97.4	371	920	5,690	9,290	1,220	16,200
		9-10	1,000	500	656	27.9	257	68.6	244	598	8,070	13,700	1,940	23,710
		14-15	-	-	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-
19-20	400	35	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	222	41.8	263.8		
HORIZONTAL DELINEATION SOIL SAMPLES														
H-1	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-2	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-3	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-4	7/11/2024	0-0.5'	-	-	16.0	<0.050	0.16	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-5	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<10.0	<10.0	<10.0
H-6	7/11/2024	0-0.5'	-	-	16.0	<0.050	<0.050	<0.050	<0.15	<0.300	<10.0	<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 row Shaded rows indicat soil intervals proposed for excavation

APPENDIX A C-141 Forms

OCD Permitting

Home Operator Data Action Status Action Search Results Action Status Item Details

[C-141] Initial C-141 (C-141-V-INITIAL) Application

Submission Information

Submission ID:	360033	Districts:	Hobbs
Operator:	[229137] COG OPERATING LLC	Counties:	Lea
Description:	COG OPERATING LLC [229137] , Deckard Federal Com 002H , nAPP2418342470		
Status:	APPROVED		
Status Date:	07/01/2024		
References (2):	fAPP2203454442, nAPP2418342470		

Forms

Attachments: [Volume Calculation](#)

Questions

Prerequisites

Incident ID (n#)	nAPP2418342470
Incident Name	NAPP2418342470 DECKARD FEDERAL COM 002H @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2203454442] DECKARD FEE 2H BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	Deckard Federal Com 002H
Date Release Discovered	06/21/2024
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Release Other
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No

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: Corrosion Flow Line - Production Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 B
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

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 follo
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
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 f
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 shc
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 do
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: 07/01/2024
--	---

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 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, then it should consult with the division to determine if another remediation plan submission is required.

Acknowledgments

This submission type does not have acknowledgments, at this time.

Comments

No comments found for this submission.

Conditions

Summary: scott.rodgers (7/1/2024), None

Reasons

No reasons found for this submission.

Go Back

APPENDIX B

Site Characterization Data

OCD Land Ownership



10/14/2024, 12:40:46 PM

Mineral Ownership



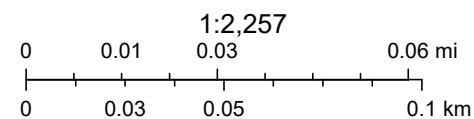
A-All minerals are owned by U.S.



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

Land Ownership

P



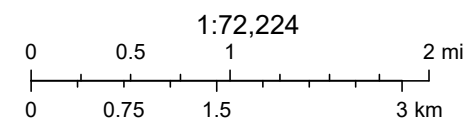
U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, IPC

USGS Groundwater Wells



10/14/2024, 1:26:39 PM

- ▲ USGS Historical GW Wells
- ▲ USGS Active Monitoring GW Wells



Esri, HERE, Garmin, Earthstar Geographics, USGS



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO) POD1		WELL TAG ID NO N/A		OSE FILE NO(S) C-04838 POD 1		
	WELL OWNER NAME(S) Devon Energy Production Company				PHONE (OPTIONAL) 575-748-1838		
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	
					ZIP 88240		
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 13	SECONDS 35.3	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE 103	31	08.9	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit P, Section 12, Township 24S, Range 33E, Lea County, NM							
2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.	
	DRILLING STARTED 06/06/2024	DRILLING ENDED 06/06/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 105		5	Soil Boring	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A			

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

DEPTH (feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N
10	20	10	Sand with Gravel, light brown to white, fine to medium with some caliche gravel	Y ✓ N
20	30	10	Sand with Gravel, light brown to tan, fine to medium with some caliche gravel	Y ✓ N
30	40	10	Sand with Gravel, light brown to brown, fine to medium with trace caliche gravel	Y ✓ N
40	50	10	Sand, brown to red, fine to medium	Y ✓ N
50	60	10	Sand with gravel, light brown to brown, fine to medium with some caliche gravel	Y ✓ N
60	70	10	Sand with Clay, red to dark brown, medium to very fine	Y ✓ N
70	80	10	Sand with Clay, brown to dark brown, medium to very fine	Y ✓ N
80	90	10	Sand with Clay, brown to dark brown, medium to very fine	Y ✓ N
90	100	10	Sand with Clay, brown to dark brown, medium to very fine	Y ✓ N
100	105	5	Sand with Clay, brown to dark brown, medium to very fine	Y ✓ N
105	105	0	Sand with Clay, brown to dark brown, medium to very fine	Y ✓ N
				Y N
				Y N
				Y N
				Y N
				Y N
				Y N
				Y N
				Y N
				Y N
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:			TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:				

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	Scott Scarborough <small>Digitally signed by Scott Scarborough Date: 2024.06.26 07:03:24 -06'00'</small>	DATE

SIGNATURE OF DRILLER / PRINT SIGNED NAME

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO	POD NO	TRN NO
LOCATION	WELL TAG ID NO	PAGE 2 OF 2



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
C 04838 POD1		CUB	LE	SE	SE	SE	12	24S	33E	639536.1	3566499.4		935	105		
C 03917 POD1		C	LE	SE	NW	SW	13	24S	33E	638373.9	3565212.6		1086	600	420	180
C 03666 POD1		C	LE	NE	SW	SE	13	24S	33E	639132.5	3565078.2		1291	650	390	260

Average Depth to Water: 405 feet

Minimum Depth: 390 feet

Maximum Depth: 420 feet

Record Count: 3

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 638629.79

Northing: 3566268.26

Radius: 001600



* UTM location was derived from PLSS - see Help

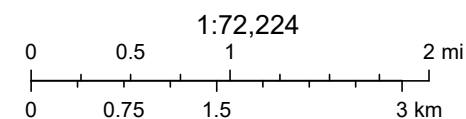
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

OCD Water Bodys



10/14/2024, 12:49:35 PM

-  OSW Water Bodys
-  OSE Streams



Esri, HERE, Garmin, Earthstar Geographics, NM OSE



National Wetlands Inventory



October 14, 2024

Wetlands

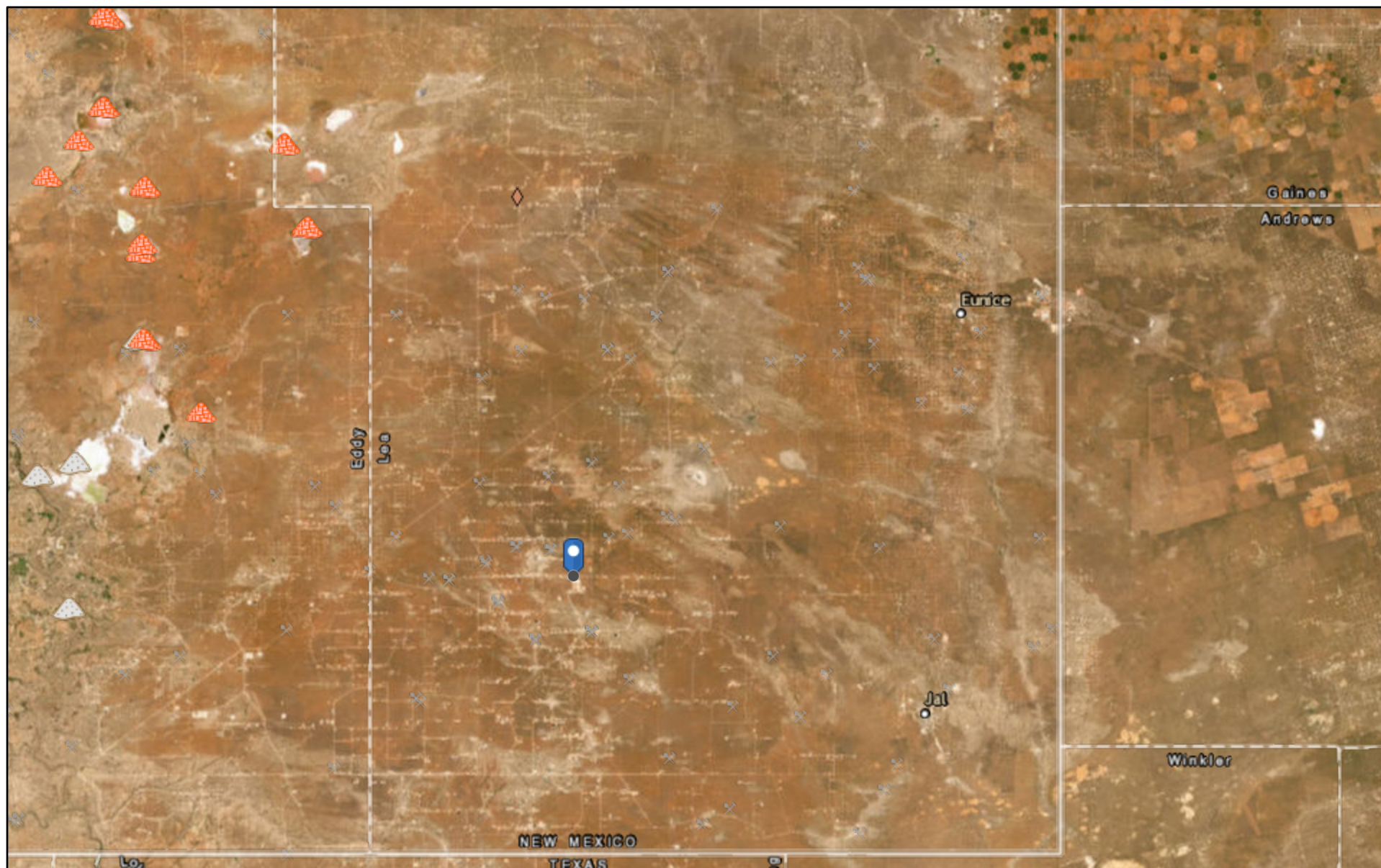
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- 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



10/14/2024, 1:09:09 PM

Registered Mines

x Aggregate, Stone etc.

x Aggregate, Stone etc.



Aggregate, Stone etc.



Aggregate, Stone etc.



Industrial Minerals (Other)



Potash



Salt

1:577,791

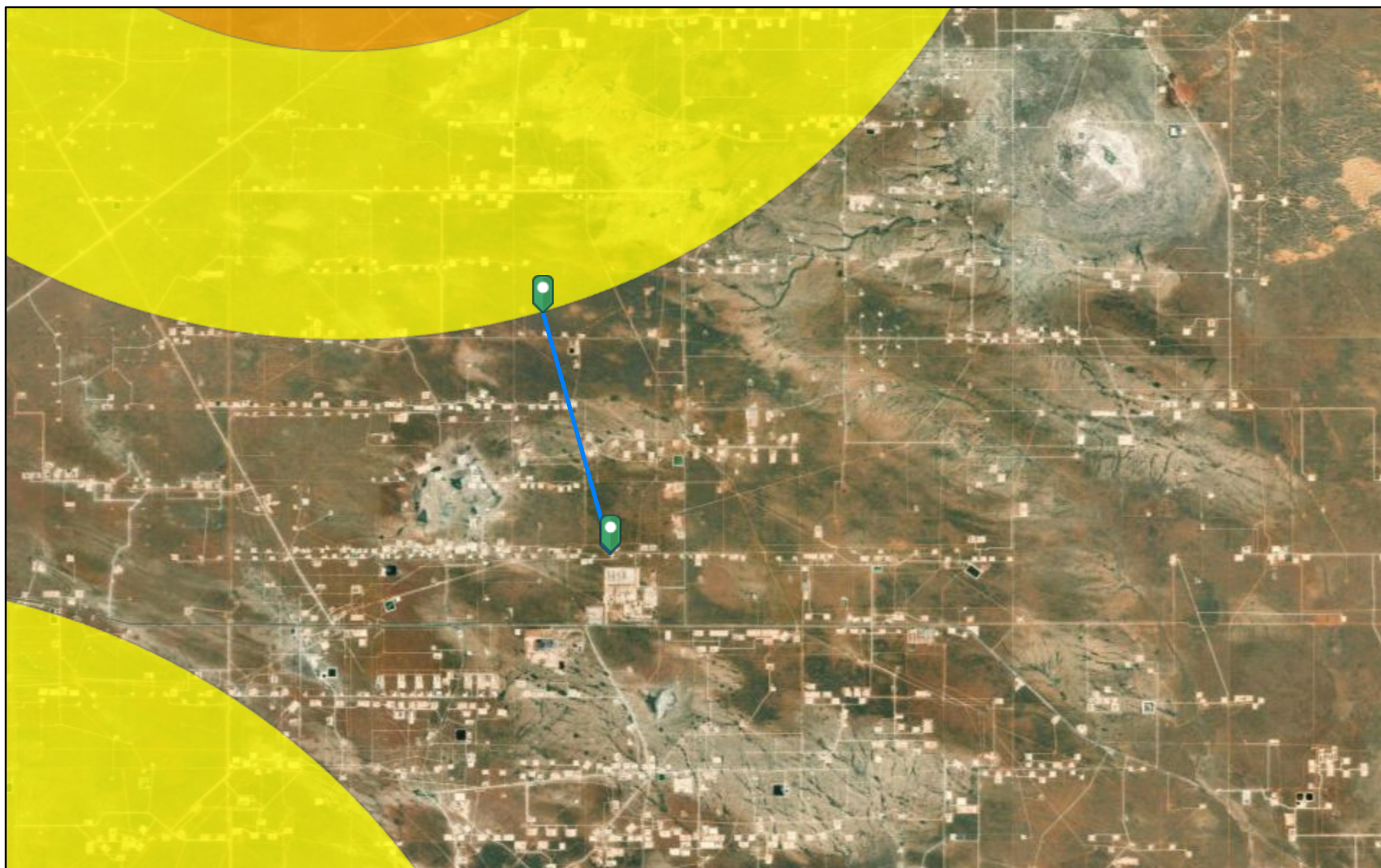
0 4.25 8.5 17 mi
0 5 10 20 km

Esri, HERE, Garmin, Earthstar Geographics

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

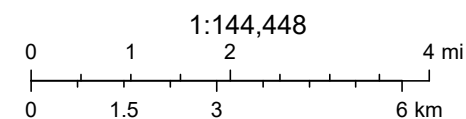
OCD Induced Seismicity Areas



10/14/2024, 12:59:41 PM

Seismic Response 3.0 to 3.4 10 mi.

6 mi.



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

New Mexico Oil Conservation Division

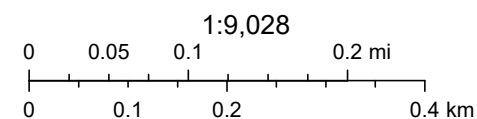
OCD Potential Karst Areas



10/14/2024, 12:57:38 PM

Karst Occurrence Potential

Low

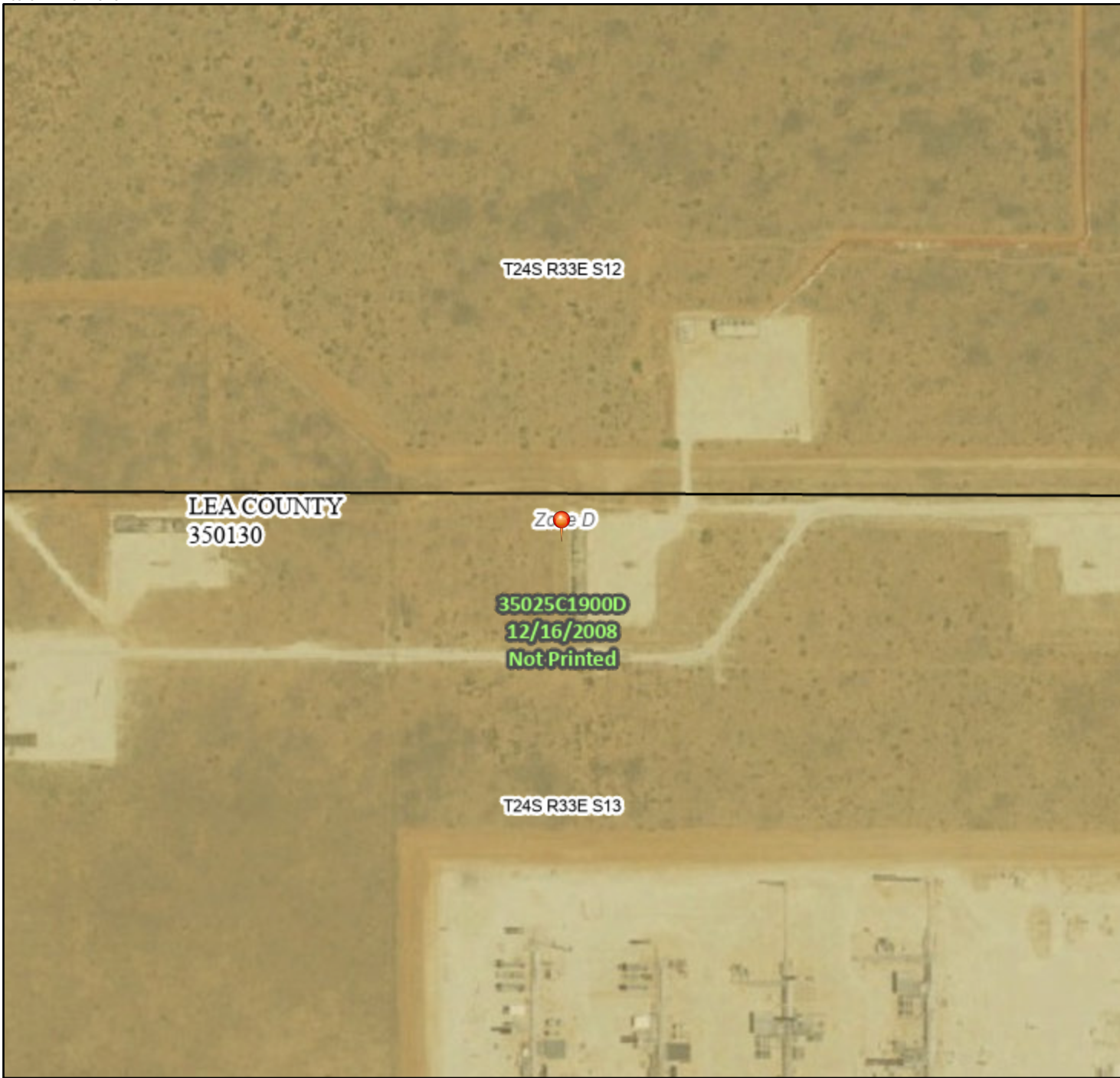


BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

National Flood Hazard Layer FIRMette



103°32'2"W 32°13'43"N



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

1:6,000

103°31'25"W 32°13'13"N

Released to Imaging: 12/26/2024 10:17:01 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
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 10/14/2024 at 2:12 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 C

Photographic Documentation



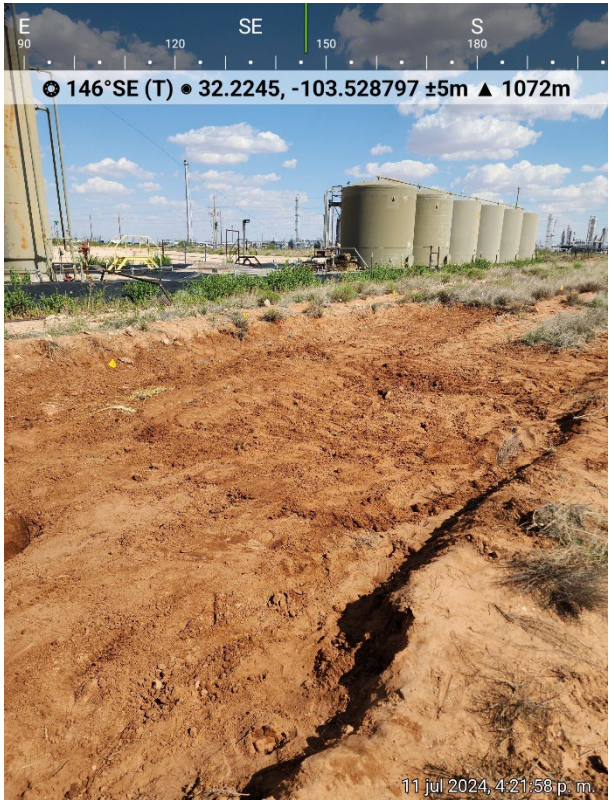
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of site signage. Deckard Federal Come #2H.	1
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View northeast of approximate release extent.	2
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



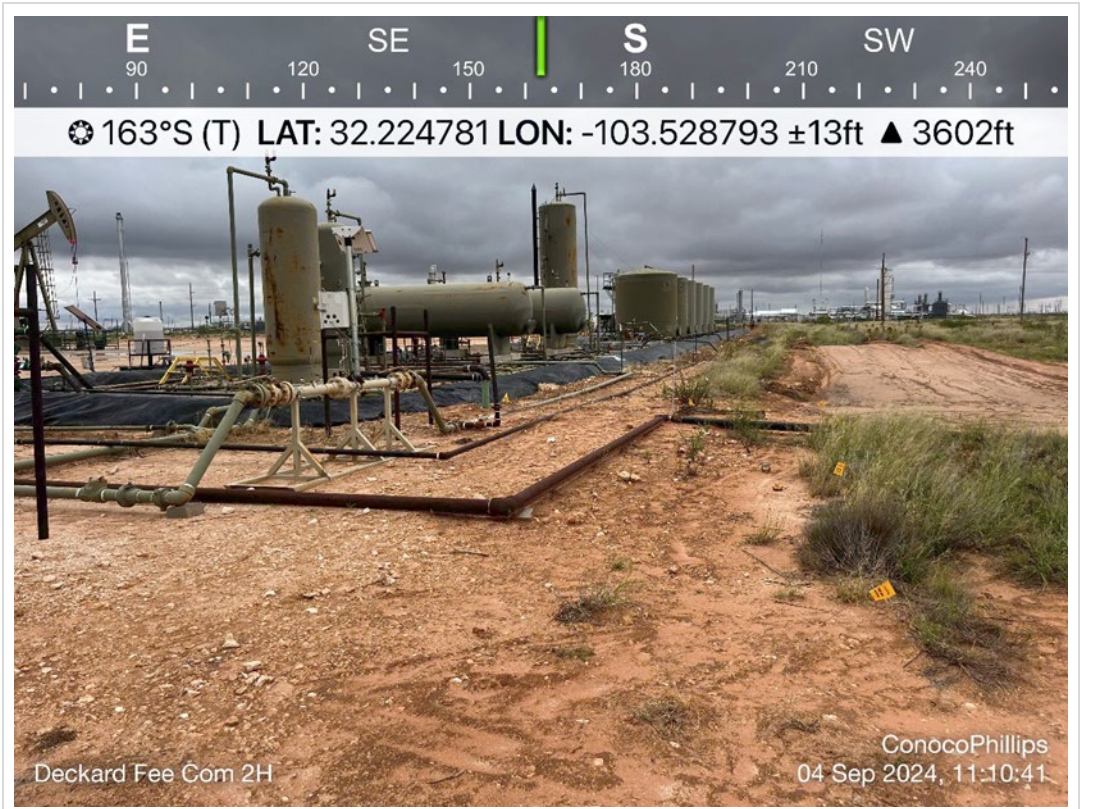
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south of approximate release extent.	3
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/9/2024



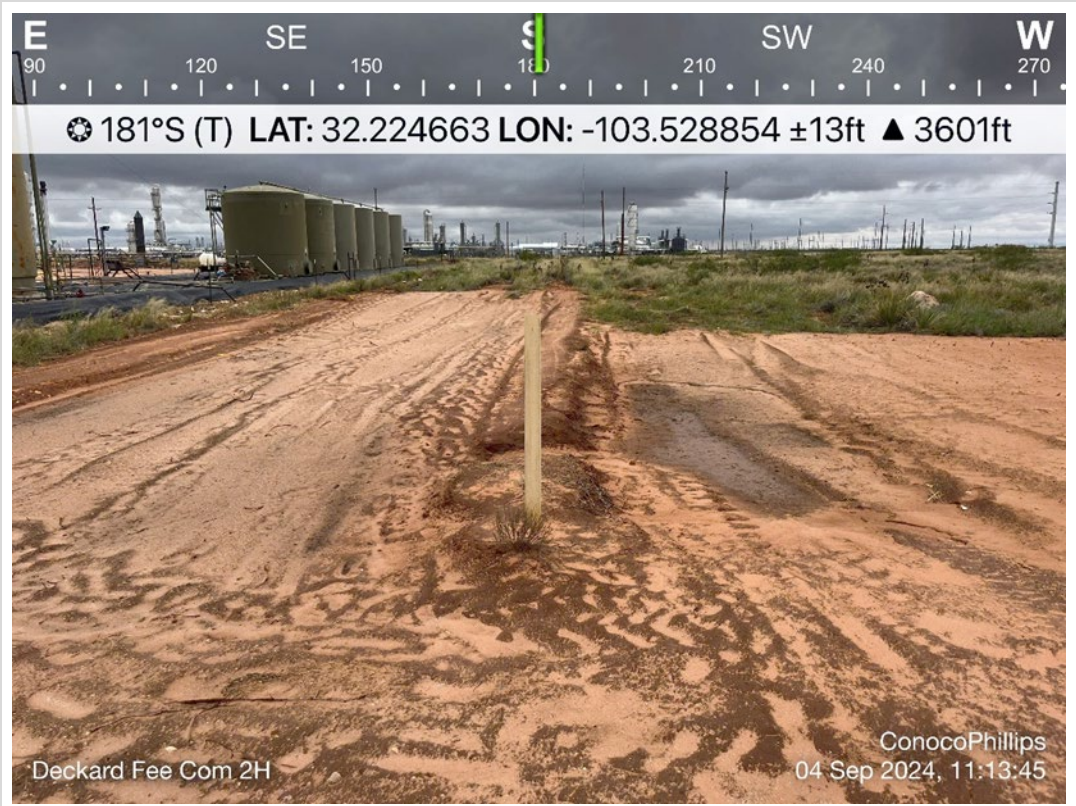
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northwest of initial response activities. View of approximate scrape area.	4
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/11/2024



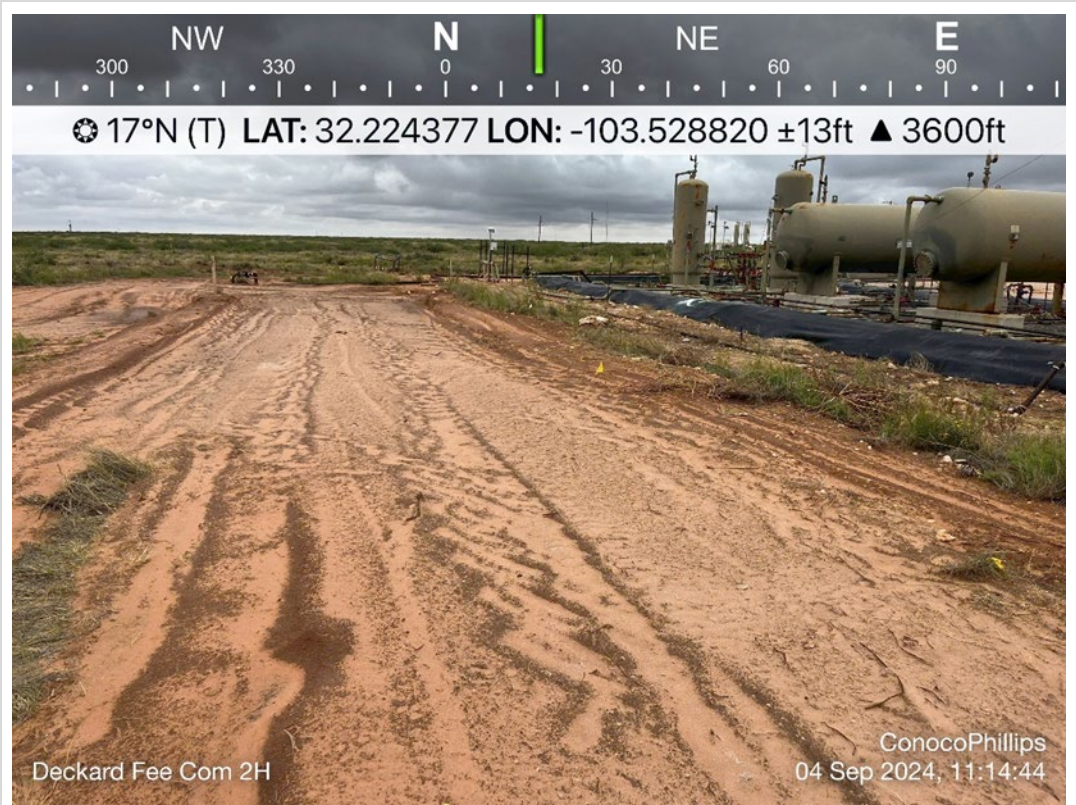
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of initial response activities. View of approximate scrape area.	5
	SITE NAME	Deckard Federal Com #003H Flowline Release	7/11/2024



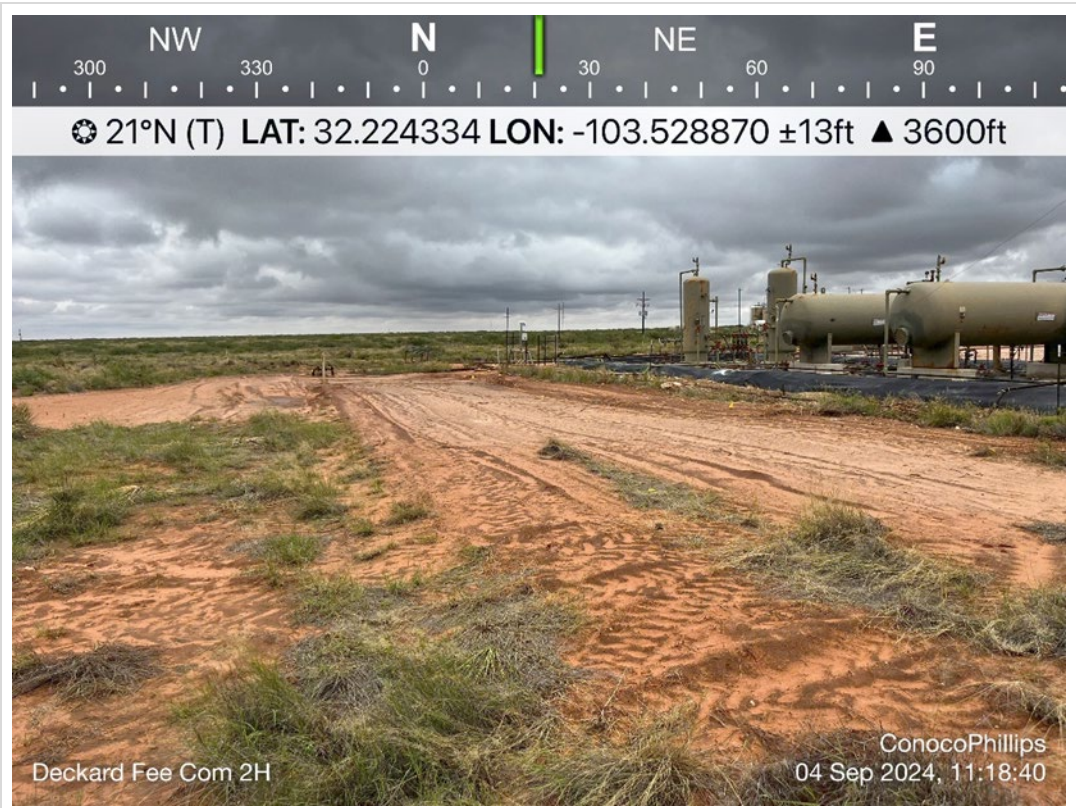
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of approximate release extent and surface/subsurface utilities. View of initial scrape area.	6
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



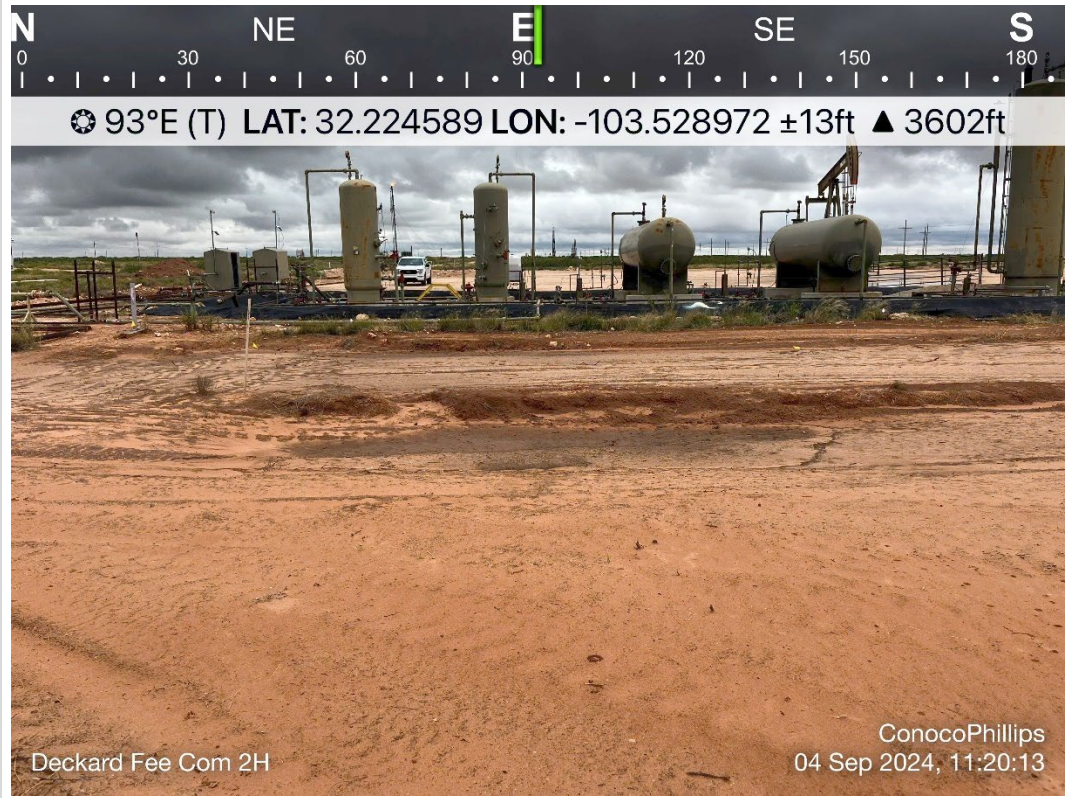
TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south of approximate release extent and subsurface utility markings. View of initial scrape area.	7
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of approximate release extent and subsurface utility markings. View of initial scrape area.	8
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View north-northeast of approximate release extent and subsurface utility markings. View of initial scrape area.	9
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View east of approximate release extent and subsurface utility markings. View of initial scrape area.	10
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/4/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03575	DESCRIPTION	View south-southeast of Geoprobe assessment activities inside approximate release extent.	11
	SITE NAME	Deckard Federal Com #003H Flowline Release	9/26/2024

APPENDIX D

Laboratory Analytical Data



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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (3') (H244163-01)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	59.4	2.00	07/13/2024	ND	1.98	99.1	2.00	5.89	
Toluene*	298	2.00	07/13/2024	ND	1.95	97.4	2.00	5.12	
Ethylbenzene*	80.8	2.00	07/13/2024	ND	1.98	98.9	2.00	4.88	
Total Xylenes*	325	6.00	07/13/2024	ND	5.84	97.3	6.00	4.98	
Total BTEX	763	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11900	50.0	07/12/2024	ND	204	102	200	1.81	
DRO >C10-C28*	15600	50.0	07/12/2024	ND	204	102	200	5.44	
EXT DRO >C28-C36	2690	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 441 % 48.2-134

Surrogate: 1-Chlorooctadecane 284 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (4') (H244163-02)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	47.6	2.00	07/13/2024	ND	1.98	99.1	2.00	5.89	
Toluene*	274	2.00	07/13/2024	ND	1.95	97.4	2.00	5.12	
Ethylbenzene*	79.2	2.00	07/13/2024	ND	1.98	98.9	2.00	4.88	
Total Xylenes*	323	6.00	07/13/2024	ND	5.84	97.3	6.00	4.98	
Total BTEX	724	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11100	50.0	07/12/2024	ND	204	102	200	1.81	
DRO >C10-C28*	16800	50.0	07/12/2024	ND	204	102	200	5.44	
EXT DRO >C28-C36	2920	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 463 % 48.2-134

Surrogate: 1-Chlorooctadecane 295 % 49.1-148

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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (3') (H244163-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.24	1.00	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	69.8	1.00	07/12/2024	ND	2.28	114	2.00	3.81	QM-07
Ethylbenzene*	10.1	1.00	07/12/2024	ND	2.35	118	2.00	3.68	QM-07
Total Xylenes*	103	3.00	07/12/2024	ND	7.27	121	6.00	3.15	QM-07
Total BTEX	191	6.00	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2530	10.0	07/12/2024	ND	200	100	200	0.613	QM-07, QR-03	
DRO >C10-C28*	6790	10.0	07/12/2024	ND	197	98.5	200	2.84	QM-07	
EXT DRO >C28-C36	1180	10.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 252 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (4') (H244163-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.39	0.500	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	57.2	0.500	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	7.03	0.500	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	90.5	1.50	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTEX	161	3.00	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2220	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	6480	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	1150	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 239 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (3') (H244163-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	21.0	1.00	07/13/2024	ND	2.12	106	2.00	5.43		
Toluene*	186	1.00	07/13/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	54.5	1.00	07/13/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	208	3.00	07/13/2024	ND	7.27	121	6.00	3.15		
Total BTEX	470	6.00	07/13/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	07/12/2024	ND	432	108	400	3.64		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4850	50.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	10300	50.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	1850	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 410 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 49.1-148

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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (4') (H244163-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	37.8	1.00	07/13/2024	ND	2.12	106	2.00	5.43		
Toluene*	186	1.00	07/13/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	78.1	1.00	07/13/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	280	3.00	07/13/2024	ND	7.27	121	6.00	3.15		
Total BTEX	583	6.00	07/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	07/12/2024	ND	432	108	400	3.64		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8510	50.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	14700	50.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	2560	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 617 % 48.2-134

Surrogate: 1-Chlorooctadecane 298 % 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

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

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: A244163

Page 9 of 9

[illegible]



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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (1.5') (H244164-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	24.3	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	306	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	97.4	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	533	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTX	960	30.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	12100	50.0	07/12/2024	ND	200	100	200	0.613		
DRO >C10-C28*	24400	50.0	07/12/2024	ND	197	98.5	200	2.84		
EXT DRO >C28-C36	4280	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 1210 % 48.2-134

Surrogate: 1-Chlorooctadecane 579 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (2') (H244164-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.2	2.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	264	2.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	77.4	2.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	322	6.00	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTEX	699	12.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7570	50.0	07/12/2024	ND	200	100	200	0.613		
DRO >C10-C28*	12500	50.0	07/12/2024	ND	197	98.5	200	2.84		
EXT DRO >C28-C36	2180	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 532 % 48.2-134

Surrogate: 1-Chlorooctadecane 242 % 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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (1.5') (H244164-03)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.1	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	198	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	55.7	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	227	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTEX	495	6.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5740	50.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	11900	50.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	2010	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 492 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (2') (H244164-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.4	1.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	163	1.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	32.6	1.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	212	3.00	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTEX	424	6.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	07/12/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6050	50.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	12700	50.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	2190	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 514 % 48.2-134

Surrogate: 1-Chlorooctadecane 238 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (1.5') (H244164-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	11.9	1.00	07/13/2024	ND	2.12	106	2.00	5.43		
Toluene*	129	1.00	07/13/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	38.8	1.00	07/13/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	178	3.00	07/13/2024	ND	7.27	121	6.00	3.15		
Total BTEX	357	6.00	07/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	07/12/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4220	50.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	9010	50.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	1570	50.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 313 % 48.2-134

Surrogate: 1-Chlorooctadecane 175 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (2') (H244164-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	15.8	1.00	07/13/2024	ND	2.12	106	2.00	5.43		
Toluene*	175	1.00	07/13/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	53.0	1.00	07/13/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	211	3.00	07/13/2024	ND	7.27	121	6.00	3.15		
Total BTEX	454	6.00	07/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 134 % 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	3920	16.0	07/12/2024	ND	432	108	400	3.77	QM-07	
TPH 8015M	mg/kg		Analyzed By: MS							S-06

Surrogate: 1-Chlorooctane 448 % 48.2-134

Surrogate: 1-Chlorooctadecane 182 % 49.1-148

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No:

H244164-1-10

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> brownfields <input type="checkbox"/> JRC <input type="checkbox"/> perfund
State of Project:	
Reporting Level II	<input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Deckard Federal Com 3H Flowline Leak (06.21.24)		Turn Around <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	2428				Due Date:	48 HR													None: NO	DI Water: H ₂ O	
Project Location:	Lea County, New Mexico																Cool: Cool	MeOH: Me			
Sampler's Name:	IR																HCL: HC	HNO ₃ : HN			
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na			
SAMPLE RECEIPT				Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP	
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO ₄ : NABIS				
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:															Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:	4.12														Zn Acetate+NaOH: Zn				
Total Containers:			Corrected Temperature:															NaOH+Ascorbic Acid: SAPC			
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
S-1 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					
S-1 (2')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					
S-2 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					
S-2 (2')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					
S-3 (1.5')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					
S-3 (2')	7/11/2024		X		G	1	X	X	X	X	X	X	X	X	X	X					

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	IR	Received by: (Signature)	Date/Time
<i>Mike Carmona</i>	7/11/24 @ 15:54		<i>APACUOS</i>	7-11-24 15:54



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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 1 (0-0.5') (H244165-01)

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	07/12/2024	ND	2.12	106	2.00	5.43	
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15	
Total BTX	<0.300	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	16.0	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 2 (0-0.5') (H244165-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43		
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 3 (0-0.5') (H244165-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43		
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 4 (0-0.5') (H244165-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43		
Toluene*	0.160	0.050	07/12/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 5 (0-0.5') (H244165-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43		
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15		
Total BTEx	<0.300	0.300	07/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613	
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: H 6 (0-0.5') (H244165-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/12/2024	ND	2.12	106	2.00	5.43		
Toluene*	<0.050	0.050	07/12/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	<0.050	0.050	07/12/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	<0.150	0.150	07/12/2024	ND	7.27	121	6.00	3.15		
Total BTEX	<0.300	0.300	07/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	<16.0	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2024	ND	200	100	200	0.613		
DRO >C10-C28*	<10.0	10.0	07/12/2024	ND	197	98.5	200	2.84		
EXT DRO >C28-C36	<10.0	10.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No: H244165

[illegible]



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

July 15, 2024

CONNER MOEHRING

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: DECKARD FEDERAL COM 3H FLOWLINE LEAK (06.21.24)

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 15:54.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (5') (H244166-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	64.5	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	395	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	100	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	420	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTX	979	30.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	3840	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10000	50.0	07/12/2024	ND	200	100	200	0.613		
DRO >C10-C28*	16900	50.0	07/12/2024	ND	197	98.5	200	2.84		
EXT DRO >C28-C36	2860	50.0	07/12/2024	ND						

Surrogate: 1-Chlorooctane 716 % 48.2-134

Surrogate: 1-Chlorooctadecane 269 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (6') (H244166-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	44.0	5.00	07/13/2024	ND	2.12	106	2.00	5.43		
Toluene*	357	5.00	07/13/2024	ND	2.28	114	2.00	3.81		
Ethylbenzene*	98.3	5.00	07/13/2024	ND	2.35	118	2.00	3.68		
Total Xylenes*	417	15.0	07/13/2024	ND	7.27	121	6.00	3.15		
Total BTEX	916	30.0	07/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	3040	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9830	50.0	07/13/2024	ND	200	100	200	0.613	
DRO >C10-C28*	18300	50.0	07/13/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	3070	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 781 % 48.2-134

Surrogate: 1-Chlorooctadecane 298 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (7') (H244166-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	63.2	5.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	411	5.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	99.0	5.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	413	15.0	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTEX	986	30.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	2480	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9560	50.0	07/13/2024	ND	200	100	200	0.613	
DRO >C10-C28*	14500	50.0	07/13/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	2450	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 632 % 48.2-134

Surrogate: 1-Chlorooctadecane 262 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 1 (8') (H244166-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.5	2.00	07/13/2024	ND	2.12	106	2.00	5.43	
Toluene*	295	2.00	07/13/2024	ND	2.28	114	2.00	3.81	
Ethylbenzene*	83.5	2.00	07/13/2024	ND	2.35	118	2.00	3.68	
Total Xylenes*	333	6.00	07/13/2024	ND	7.27	121	6.00	3.15	
Total BTEX	744	12.0	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	2600	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7870	50.0	07/13/2024	ND	200	100	200	0.613	
DRO >C10-C28*	15000	50.0	07/13/2024	ND	197	98.5	200	2.84	
EXT DRO >C28-C36	2380	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 641 % 48.2-134

Surrogate: 1-Chlorooctadecane 240 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (5') (H244166-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.3	2.00	07/15/2024	ND	1.98	98.9	2.00	0.0164	QM-07
Toluene*	73.3	2.00	07/15/2024	ND	1.97	98.6	2.00	0.806	QM-07
Ethylbenzene*	17.6	2.00	07/15/2024	ND	2.09	104	2.00	1.68	QM-07
Total Xylenes*	135	6.00	07/15/2024	ND	6.15	103	6.00	1.82	QM-07
Total BTEX	236	12.0	07/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4230	50.0	07/13/2024	ND	223	111	200	2.88	QM-07, QR-03
DRO >C10-C28*	11200	50.0	07/13/2024	ND	219	110	200	7.75	QM-07, QR-03
EXT DRO >C28-C36	1420	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 190 % 48.2-134

Surrogate: 1-Chlorooctadecane 215 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (6') (H244166-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.26	0.500	07/13/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	26.3	0.500	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	5.05	0.500	07/13/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	65.1	1.50	07/13/2024	ND	6.15	103	6.00	1.82	
Total BTEX	99.7	3.00	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	496	16.0	07/12/2024	ND	432	108	400	3.77	
TPH 8015M									S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2310	50.0	07/13/2024	ND	223	111	200	2.88	
DRO >C10-C28*	7900	50.0	07/13/2024	ND	219	110	200	7.75	
EXT DRO >C28-C36	1010	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 167 % 48.2-134

Surrogate: 1-Chlorooctadecane 194 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (7') (H244166-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	0.121	0.050	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	<0.050	0.050	07/13/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	0.206	0.150	07/13/2024	ND	6.15	103	6.00	1.82	
Total BTEX	0.327	0.300	07/13/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2024	ND	223	111	200	2.88	
DRO >C10-C28*	128	10.0	07/13/2024	ND	219	110	200	7.75	
EXT DRO >C28-C36	12.0	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 2 (8') (H244166-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	0.149	0.050	07/12/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	0.144	0.050	07/12/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	0.388	0.150	07/12/2024	ND	6.15	103	6.00	1.82	
Total BTEX	0.681	0.300	07/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.3	10.0	07/13/2024	ND	223	111	200	2.88	
DRO >C10-C28*	303	10.0	07/13/2024	ND	219	110	200	7.75	
EXT DRO >C28-C36	41.4	10.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
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 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (5') (H244166-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.5	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	233	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	84.0	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	302	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
Total BTEX	655	12.0	07/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	9140	50.0	07/13/2024	ND	223	111	200	2.88		
DRO >C10-C28*	15600	50.0	07/13/2024	ND	219	110	200	7.75		
EXT DRO >C28-C36	1910	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 234 % 48.2-134

Surrogate: 1-Chlorooctadecane 270 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (6') (H244166-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	39.3	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	247	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	88.7	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	316	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
Total BTEX	691	12.0	07/13/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	10200	50.0	07/13/2024	ND	223	111	200	2.88		
DRO >C10-C28*	17700	50.0	07/13/2024	ND	219	110	200	7.75		
EXT DRO >C28-C36	2190	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 260 % 48.2-134

Surrogate: 1-Chlorooctadecane 308 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (7') (H244166-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	78.9	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164		
Toluene*	397	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806		
Ethylbenzene*	133	2.00	07/13/2024	ND	2.09	104	2.00	1.68		
Total Xylenes*	466	6.00	07/13/2024	ND	6.15	103	6.00	1.82		
Total BTEX	1080	12.0	07/13/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1280	16.0	07/12/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15300	50.0	07/13/2024	ND	223	111	200	2.88	
DRO >C10-C28*	23100	50.0	07/13/2024	ND	219	110	200	7.75	
EXT DRO >C28-C36	2880	50.0	07/13/2024	ND					

Surrogate: 1-Chlorooctane 331 % 48.2-134

Surrogate: 1-Chlorooctadecane 403 % 49.1-148

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Analytical Results For:

CARMONA RESOURCES
 CONNER MOEHRING
 310 W WALL ST, SUITE 500
 MIDLAND TX, 79701
 Fax To:

Received:	07/11/2024	Sampling Date:	07/11/2024
Reported:	07/15/2024	Sampling Type:	Soil
Project Name:	DECKARD FEDERAL COM 3H FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	2428	Sample Received By:	Alyssa Parras
Project Location:	LEA CO, NM		

Sample ID: S - 3 (8') (H244166-12)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.2	2.00	07/13/2024	ND	1.98	98.9	2.00	0.0164	
Toluene*	216	2.00	07/13/2024	ND	1.97	98.6	2.00	0.806	
Ethylbenzene*	76.7	2.00	07/13/2024	ND	2.09	104	2.00	1.68	
Total Xylenes*	274	6.00	07/13/2024	ND	6.15	103	6.00	1.82	
Total BTX	605	12.0	07/13/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	07/12/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	8870	50.0	07/13/2024	ND	223	111	200	2.88		
DRO >C10-C28*	14900	50.0	07/13/2024	ND	219	110	200	7.75		
EXT DRO >C28-C36	1820	50.0	07/13/2024	ND						

Surrogate: 1-Chlorooctane 250 % 48.2-134

Surrogate: 1-Chlorooctadecane 264 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-03	Multiple analyses indicate the percent recovery exceeds the Quality Control acceptance criteria due to a matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Work Order No:

H24411010

Page 1 of 2

Work Order Comments									
Program:	UST/ST	<input type="checkbox"/> RRP	<input type="checkbox"/> how:fields	<input type="checkbox"/> IRC	<input type="checkbox"/> pfund	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State of Project:									
Reporting:Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	ST/UST	<input type="checkbox"/>	RRP	<input type="checkbox"/>	Level IV	<input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/>	ADAPT	<input type="checkbox"/>	Other:					

Comments: Email to Mike Carmona / Mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Date/Time

Nea Karsa

Date/Time	7/11/24 @ 15:54	15	Re
			Opavos

711.241.584

Chain of Custody

Work Order No:

H2441166

Page 2 of 2

Project Manager:	Conner Moehring	Bill to: (if different)	Carmona Resources
Company Name:	Carmona Resources	Company Name:	
Address:	310 W Wall St Ste 500	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-813-6823	Email:	mcarmona@carmonaresources.com

Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Iperfund
State of Project:	Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	Deckard Federal Com 3H Flowline Leak (06.21.24)		Turn Around	Pres. Code	ANALYSIS REQUEST												Preservative Codes				
Project Number:	2428		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	48 HR														None: NO	DI Water: H ₂ O		
Project Location:	Lea County, New Mexico		Due Date:															Cool: Cool	MeOH: Me		
Sampler's Name:	IR																	HCL: HC	HNO ₃ : HN		
PO #:																		H ₂ SO ₄ : H ₂	NaOH: Na		
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												H ₃ PO ₄ : HP		
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Correction Factor:				BTEX 8021B												NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Temperature Reading:				TPH 8015M (GRO + DRO + MRO)												Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A	Corrected Temperature:				Chloride 4500												Zn Acetate+NaOH: Zn		
Total Containers:																			NaOH+Ascorbic Acid: SAPC		
Sample Identification	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments		
11 S-3 (7')	7/11/2024		X		G	1	X	X	X												
12 S-3 (8')	7/11/2024		X		G	1	X	X	X												

Comments: Email to Mike Carmona / mcarmona@carmonaresources.com and Conner Moehring / Cmoehring@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Mike Carmona</i>	7/11/24 15:54	<i>Conner Moehring</i>	7-11-24 15:54



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

October 04, 2024

SAM ABBOTT

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DECKARD FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (0-1) (H245920-01)

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	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTX	<0.300	0.300	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (2-3) (H245920-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22		
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468		
Total BTEx	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/01/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (3-4) (H245920-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22		
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516		
Total Xylenes*	0.198	0.150	10/01/2024	ND	6.28	105	6.00	0.468		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/01/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	162	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	32.2	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (4-5) (H245920-04)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	9.28	0.200	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	7.53	0.200	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	40.7	0.600	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	57.5	1.20	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1090	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	8250	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	1180	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 214 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 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
 SAM ABBOTT
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (6-7) (H245920-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22		
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/01/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	176	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	31.7	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (8-9) (H245920-06)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.44	0.500	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	51.9	0.500	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	20.2	0.500	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	110	1.50	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	185	3.00	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/01/2024	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2640	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	7750	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	1050	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 268 % 48.2-134

Surrogate: 1-Chlorooctadecane 147 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (9-10') (H245920-07)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2024	ND	2.05	103	2.00	1.22	
Toluene*	0.290	0.050	10/02/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	0.185	0.050	10/02/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	3.99	0.150	10/02/2024	ND	6.28	105	6.00	0.468	
Total BTEX	4.47	0.300	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1340	16.0	10/01/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	261	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	1480	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	217	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (14-15') (H245920-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22		
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/01/2024	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (19-20') (H245920-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEx	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	103	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	12.3	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 1 (24-25') (H245920-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22		
Toluene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	0.831		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.11	105	2.00	0.516		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.28	105	6.00	0.468		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	84.6	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (0-1) (H245920-11)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.05	103	2.00	1.22	
Toluene*	0.189	0.050	10/01/2024	ND	2.10	105	2.00	0.831	
Ethylbenzene*	0.252	0.050	10/01/2024	ND	2.11	105	2.00	0.516	
Total Xylenes*	4.51	0.150	10/01/2024	ND	6.28	105	6.00	0.468	
Total BTEX	4.95	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	318	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	5870	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	885	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (2-3) (H245920-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.2	2.00	10/02/2024	ND	2.07	104	2.00	1.03	QM-07
Toluene*	208	2.00	10/02/2024	ND	2.04	102	2.00	3.21	QM-07
Ethylbenzene*	40.9	2.00	10/02/2024	ND	2.10	105	2.00	4.33	QM-07
Total Xylenes*	258	6.00	10/02/2024	ND	6.31	105	6.00	4.35	QM-07
Total BTEX	527	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7690	50.0	10/02/2024	ND	213	107	200	1.74		
DRO >C10-C28*	14900	50.0	10/02/2024	ND	200	100	200	2.48		
EXT DRO >C28-C36	1990	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 552 % 48.2-134

Surrogate: 1-Chlorooctadecane 218 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (3-4) (H245920-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	16.6	2.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	194	2.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	54.8	2.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	203	6.00	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	468	12.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7750	50.0	10/02/2024	ND	213	107	200	1.74	
DRO >C10-C28*	13500	50.0	10/02/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	1820	50.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 530 % 48.2-134

Surrogate: 1-Chlorooctadecane 234 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (4-5) (H245920-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	36.6	1.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	24.4	1.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	97.3	3.00	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	158	6.00	10/02/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2570	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	7820	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	1040	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 292 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (6-7) (H245920-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	0.151	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (8-9) (H245920-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEx	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	31.5	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (9-10) (H245920-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 2 (14-15) (H245920-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEx	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Analytical Results For:

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

Received: 09/30/2024
 Reported: 10/04/2024
 Project Name: DECKARD FED COM 2H
 Project Number: 212C - MD - 03575
 Project Location: NONE GIVEN

Sampling Date: 09/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 2 (19-20) (H245920-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (0-1) (H245920-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.115	0.050	10/01/2024	ND	2.07	104	2.00	1.03	
Toluene*	0.352	0.050	10/01/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	0.241	0.150	10/01/2024	ND	6.31	105	6.00	4.35	
Total BTEX	0.708	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	24.2	10.0	10/01/2024	ND	213	107	200	1.74	
DRO >C10-C28*	5610	10.0	10/01/2024	ND	200	100	200	2.48	
EXT DRO >C28-C36	1440	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (2-3) (H245920-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	11.9	2.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	100	2.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	16.0	2.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	158	6.00	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	287	12.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2270	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2770	10.0	10/01/2024	ND	179	89.6	200	2.52	QM-07
DRO >C10-C28*	6660	10.0	10/01/2024	ND	179	89.6	200	5.60	QM-07
EXT DRO >C28-C36	1080	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 134 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (4-5) (H245920-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.1	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
Toluene*	148	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	41.4	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	190	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
Total BTEX	392	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3680	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	8130	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1190	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 214 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (6-7) (H245920-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	22.8	2.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	234	2.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	64.4	2.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	270	6.00	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	591	12.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	7430	50.0	10/02/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	14300	50.0	10/02/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	2050	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 591 % 48.2-134

Surrogate: 1-Chlorooctadecane 234 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (8-9) (H245920-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.3	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
Toluene*	168	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	50.0	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	215	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
Total BTEX	447	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4960	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	9990	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1380	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 163 % 48.2-134

Surrogate: 1-Chlorooctadecane 193 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (9-10) (H245920-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (14-15) (H245920-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.07	104	2.00	1.03		
Toluene*	<0.050	0.050	10/01/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.31	105	6.00	4.35		
Total BTEX	<0.300	0.300	10/01/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (0-1) (H245920-27)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.204	0.050	10/03/2024	ND	2.07	104	2.00	1.03	
Toluene*	0.752	0.050	10/03/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	0.760	0.050	10/03/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	5.71	0.150	10/03/2024	ND	6.31	105	6.00	4.35	
Total BTEX	7.43	0.300	10/03/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 219 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	10/01/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	436	10.0	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	5560	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	1010	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (2-3) (H245920-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	42.7	2.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	201	2.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	47.9	2.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	195	6.00	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	487	12.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	10/01/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4320	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	7130	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1010	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 217 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (3-4) (H245920-29)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	31.4	5.00	10/02/2024	ND	2.07	104	2.00	1.03		
Toluene*	236	5.00	10/02/2024	ND	2.04	102	2.00	3.21		
Ethylbenzene*	61.6	5.00	10/02/2024	ND	2.10	105	2.00	4.33		
Total Xylenes*	249	15.0	10/02/2024	ND	6.31	105	6.00	4.35		
Total BTEX	578	30.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	10/01/2024	ND	416	104	400	7.41	QM-07	

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6980	50.0	10/02/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	11800	50.0	10/02/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	1700	50.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 498 % 48.2-134

Surrogate: 1-Chlorooctadecane 195 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (4-5) (H245920-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	13.3	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
Toluene*	141	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	41.0	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	176	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
Total BTEX	371	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	10/01/2024	ND	416	104	400	7.41		

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4170	10.0	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	8430	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	1160	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 237 % 48.2-134

Surrogate: 1-Chlorooctadecane 162 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (6-7) (H245920-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.6	2.00	10/02/2024	ND	2.07	104	2.00	1.03	
Toluene*	130	2.00	10/02/2024	ND	2.04	102	2.00	3.21	
Ethylbenzene*	36.1	2.00	10/02/2024	ND	2.10	105	2.00	4.33	
Total Xylenes*	166	6.00	10/02/2024	ND	6.31	105	6.00	4.35	
Total BTEX	345	12.0	10/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3500	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	7500	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1070	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 216 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (8-9) (H245920-32)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	59.6	2.00	10/01/2024	ND	2.06	103	2.00	2.66	QM-07
Toluene*	392	2.00	10/01/2024	ND	2.26	113	2.00	3.20	QM-07
Ethylbenzene*	97.4	2.00	10/01/2024	ND	2.49	125	2.00	6.32	QM-07
Total Xylenes*	371	6.00	10/01/2024	ND	7.62	127	6.00	7.78	QM-07
Total BTEX	920	12.0	10/01/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/01/2024	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5690	10.0	10/01/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	9290	10.0	10/01/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1220	10.0	10/01/2024	ND						

Surrogate: 1-Chlorooctane 260 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 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
 SAM ABBOTT
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (9-10) (H245920-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	27.9	5.00	10/02/2024	ND	2.06	103	2.00	2.66		
Toluene*	257	5.00	10/02/2024	ND	2.26	113	2.00	3.20		
Ethylbenzene*	68.6	5.00	10/02/2024	ND	2.49	125	2.00	6.32		
Total Xylenes*	244	15.0	10/02/2024	ND	7.62	127	6.00	7.78		
Total BTEX	598	30.0	10/02/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	10/01/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	8070	50.0	10/02/2024	ND	179	89.6	200	2.52		
DRO >C10-C28*	13700	50.0	10/02/2024	ND	179	89.6	200	5.60		
EXT DRO >C28-C36	1940	50.0	10/02/2024	ND						

Surrogate: 1-Chlorooctane 592 % 48.2-134

Surrogate: 1-Chlorooctadecane 277 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (14-15) (H245920-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/01/2024	ND	2.06	103	2.00	2.66	
Toluene*	<0.050	0.050	10/01/2024	ND	2.26	113	2.00	3.20	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.49	125	2.00	6.32	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.62	127	6.00	7.78	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/01/2024	ND	416	104	400	7.41		

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	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 4 (19-20) (H245920-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/01/2024	ND	2.06	103	2.00	2.66		
Toluene*	<0.050	0.050	10/01/2024	ND	2.26	113	2.00	3.20		
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.49	125	2.00	6.32		
Total Xylenes*	<0.150	0.150	10/01/2024	ND	7.62	127	6.00	7.78		
Total BTEX	<0.300	0.300	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/01/2024	ND	416	104	400	7.41		

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	10/01/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	222	10.0	10/01/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	41.8	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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
 SAM ABBOTT
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	09/30/2024	Sampling Date:	09/26/2024
Reported:	10/04/2024	Sampling Type:	Soil
Project Name:	DECKARD FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03575	Sample Received By:	Alyssa Parras
Project Location:	NONE GIVEN		

Sample ID: BH 3 (3-4') (H245920-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	34.0	2.00	10/01/2024	ND	2.06	103	2.00	2.66		
Toluene*	276	2.00	10/01/2024	ND	2.26	113	2.00	3.20		
Ethylbenzene*	66.1	2.00	10/01/2024	ND	2.49	125	2.00	6.32		
Total Xylenes*	315	6.00	10/01/2024	ND	7.62	127	6.00	7.78		
Total BTEX	691	12.0	10/01/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	10/01/2024	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6780	50.0	10/02/2024	ND	179	89.6	200	2.52	
DRO >C10-C28*	12900	50.0	10/02/2024	ND	179	89.6	200	5.60	
EXT DRO >C28-C36	1970	50.0	10/02/2024	ND					

Surrogate: 1-Chlorooctane 531 % 48.2-134

Surrogate: 1-Chlorooctadecane 222 % 49.1-148

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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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 4

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2
7
4

Company Name:							BILL TO							ANALYSIS REQUEST						
Project Manager:							P.O. #:													
Address:							Company:													
City:							Attn:													
State:							Address:													
Phone #:							City:													
Fax #:							State:													
Project #: Project Owner:							Zip:													
Project Location:							Phone #:													
Sample Name:							Fax #:													
FOR LAB USE ONLY																				
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING	DATE	TIME							
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
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12	" (2-3)																			
13	" (3-4)																			
14	" (4-5)																			
15	" (6-7)																			
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22	" (20-21)																			
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																				
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Time: 1:30																				
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Time: 1:30																				
Delivered By: (Circle One)							Observed Temp. °C							Sample Condition						
Corrected Temp. °C							Cool Intact							CHECKED BY: (Initials)						
Sampler - UPS - Bus - Other:							Yes No Yes No							Turnaround Time:						
Standard Rush							Bacteria (only) Sample Condition							Observed Temp. °C						
Correction Factor -0.6°C							Yes No Yes No							Corrected Temp. °C						
<p>REMARKS:</p>																				
<p>Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:</p>																				
<p>All Results are emailed. Please provide Email address:</p>																				



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

343

Company Name: Project Manager: Address: City: State: Zip: Phone #: Fax #: Project #: Project Name: Project Location: Sampler Name:				P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST																																																																																																																																																																																									
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. 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.												Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:																																																																																																																																																																																									



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 42 of 42

APPENDIX E

Boring Logs

212C-MD-03575	TETRA TECH	LOG OF BORING BH-1	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location 32.224463°, -103.528796°

Surface Elevation: 3596 ft

Borehole Number: BH-1

Borehole
Diameter (in.): 2

Date Started: 9/26/2024

Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
												Remarks: While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft			
												MATERIAL DESCRIPTION			
5												- SP- SAND: Brown, loose, dry, with significant hydrocarbon odor.	2		
												- SM- SANDY SILT: Reddish brown, loose, dry, with significant hydrocarbon odor.	6		
10			1400	1000								- ML- SANDY SILT: Brown, loose, moist, with significant hydrocarbon odor.	14		
15			375	50								- CL-ML- CALICHE: White, dense, dry, cemented, with slight hydrocarbon odor.			
20			675	30								-- - No odor @ 19' bgs			
25			510	0									25		

Bottom of borehole at 25.0 feet.

Sampler Types: Split Spoon Shelby Bulk Sample Grab Sample Acetate Liner Vane Shear Discrete Sample Test Pit	Operation Types: Mud Rotary Continuous Flight Auger Wash Rotary Hand Auger Air Rotary Direct Push Core Barrel	Notes: Surface elevation is an approximate value obtained from Google Earth.
Logger: Adrian Garcia	Drilling Equipment: Direct Push	Driller: Envirotech Drilling Services

212C-MD-03575	TETRA TECH	LOG OF BORING BH-2	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location 32.224495°, -103.528816°



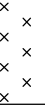
Surface Elevation: 3596 ft

Borehole Number: BH-2

Borehole
Diameter (in.): 2


Date Started: 9/26/2024

Date Finished: 9/26/2024

WATER LEVEL OBSERVATIONS														
While Drilling ▽ DRY ft Upon Completion of Drilling ▽ DRY ft														
Remarks:														
MATERIAL DESCRIPTION												DEPTH (ft)	REMARKS	
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG			
		ExStik	PID					LL	PI					
5			300	26								-SP- SAND: Brown, loose, dry, with significant hydrocarbon odor.	2	
												-SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.	6	
10												-ML- SANDY SILT: Brown, loose, moist, with significant hydrocarbon odor.	9	
												-SM- CALICHE: Brownish pink, dense, dry, cemented, with significant hydrocarbon odor.	14	
15			389	8								-CL-ML- CALICHE: White, dense, dry, cemented, no odor.		
20			250	10										
25														

Bottom of borehole at 25.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an approximate value obtained from Google Earth.
Logger: Adrian Garcia	Drilling Equipment: Direct Push	Driller: Envirotech Drilling Services

212C-MD-03575		 TETRA TECH		LOG OF BORING BH-3				Page 1 of 1						
Project Name: Deckard Federal Com 3H														
Borehole Location 32.224561°, -103.528788°						Surface Elevation: 3596 ft								
Borehole Number: BH-3				Borehole Diameter (in.): 2		Date Started: 9/26/2024		Date Finished: 9/26/2024						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		
												While Drilling <input checked="" type="checkbox"/> DRY ft Upon Completion of Drilling <input checked="" type="checkbox"/> DRY ft		
Remarks:												DEPTH (ft)	REMARKS	
MATERIAL DESCRIPTION														
5												-SP- SAND: Brown, loose, dry, with significant hydrocarbon odor.	2	
												-SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.	8	
10			20	81								-SM- SANDY SILT: Brownish pink, loose, moist, with slight hydrocarbon odor.	9	
												-CL-ML- CALICHE: White, dense, dry, cemented, no odor.		
15			3	306										
20														
25														

Bottom of borehole at 25.0 feet.

Sampler Types:		<input checked="" type="checkbox"/> Split Spoon		<input checked="" type="checkbox"/> Acetate Liner		Operation Types:		<input checked="" type="checkbox"/> Hand Auger		Notes: Surface elevation is an approximate value obtained from Google Earth.	
		<input checked="" type="checkbox"/> Shelby		<input checked="" type="checkbox"/> Vane Shear		<input checked="" type="checkbox"/> Mud Rotary		<input checked="" type="checkbox"/> Air Rotary			
		<input checked="" type="checkbox"/> Bulk Sample		<input checked="" type="checkbox"/> Discrete Sample		<input checked="" type="checkbox"/> Continuous Flight Auger		<input checked="" type="checkbox"/> Direct Push			
		<input checked="" type="checkbox"/> Grab Sample		<input checked="" type="checkbox"/> Test Pit		<input checked="" type="checkbox"/> Wash Rotary		<input checked="" type="checkbox"/> Core Barrel			
Logger: Adrian Garcia						Drilling Equipment: Direct Push				Driller: Envirotech Drilling Services	

212C-MD-03575	TETRA TECH	LOG OF BORING BH-4	Page 1 of 1
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Project Name: Deckard Federal Com 3H

Borehole Location 32.224617°, -103.528820°

Surface Elevation: 3596 ft

Borehole Number: BH-4

Borehole
Diameter (in.): 2

Date Started: 9/26/2024

Date Finished: 9/26/2024

DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	WATER LEVEL OBSERVATIONS		DEPTH (ft)	REMARKS
												While Drilling	Upon Completion of Drilling		
			ExStik	PID				LL	PI			REMARKS: While Drilling <u>▽</u> DRY ft Upon Completion of Drilling <u>▽</u> DRY ft			
												MATERIAL DESCRIPTION			
5												-SP- SAND: Brown, loose, dry, with slight hydrocarbon odor. -- - Significant hydrocarbon odor @ 3'	3		
												-SM- SILTY SAND: Reddish brown, loose, dry, with significant hydrocarbon odor.	8		
10			500	1000								-SP- SAND: Light brown, loose, moist, with significant hydrocarbon odor. -CL-ML- CALICHE: White, dense, dry, with slight hydrocarbon odor.	9		
15												-- - No hydrocarbon odor @ 14'	15		
20			35	400								-CL-ML- CALICHE: Pinkish white, dense, dry, no odor.			
25														25	

Bottom of borehole at 25.0 feet.

Sampler Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Split Spoon Shelby Bulk Sample Grab Sample </div> <div style="width: 50%;"> Acetate Liner Vane Shear Discrete Sample Test Pit </div> </div>	Operation Types: <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> Mud Rotary Continuous Flight Auger Wash Rotary </div> <div style="width: 50%;"> Hand Auger Air Rotary Direct Push Core Barrel </div> </div>	Notes: Surface elevation is an approximate value obtained from Google Earth.
Logger: Adrian Garcia	Drilling Equipment: Direct Push	Driller: Envirotech Drilling Services

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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 413350

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2418342470
Incident Name	NAPP2418342470 DECKARD FEDERAL COM 002H @ 0
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2203454442] DECKARD FEE 2H BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	Deckard Federal Com 002H
Date Release Discovered	06/21/2024
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 3 BBL Recovered: 0 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 413350

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: 12/18/2024
--	--

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QUESTIONS, Page 3

Action 413350

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	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 100 and 500 (ft.)
What method was used to determine the depth to ground water	OCD Imaging Records Lookup
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	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)	4720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	41280
GRO+DRO (EPA SW-846 Method 8015M)	38400
BTEX (EPA SW-846 Method 8021B or 8260B)	1080
Benzene (EPA SW-846 Method 8021B or 8260B)	78.9
<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	04/17/2025
On what date will (or did) the final sampling or liner inspection occur	05/08/2025
On what date will (or was) the remediation complete(d)	05/17/2025
What is the estimated surface area (in square feet) that will be reclaimed	2125
What is the estimated volume (in cubic yards) that will be reclaimed	380
What is the estimated surface area (in square feet) that will be remediated	2125
What is the estimated volume (in cubic yards) that will be remediated	380
<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 413350

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	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: 12/18/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 413350

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	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 413350

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	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 413350

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 413350
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	12/26/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/26/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/26/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/26/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	12/26/2024
bhall	Submit a complete and accurate remediation closure report and/or reclamation report through the OCD Permitting website by 3/28/2025.	12/26/2024