

## Report Type: Closure Report nAPP2227750429

### General Site Information:

Site:	Diamond 31 Fed Com #2H					
Company:	EOG Resources					
Section, Township and Range	Unit D	Sec 31	T 24S	R 34E		
County:	Lea County					
GPS:	32.181270°			-103.516583°		
Surface Owner:	Federal					
Directions:	From the intersection of HWY 128 and Vaca Ln, travel south on Vaca Ln for approx. 2.25 miles, turn east onto lease road for 0.15 miles to location on north side of lease road.					

### Release Data:

<b>Date Released:</b>	9/19/2022
<b>Type Release:</b>	Oil
<b>Source of Contamination:</b>	Failed Manway Gasket
<b>Fluid Released:</b>	10 bbl oil
<b>Fluids Recovered:</b>	1 bbl oil

### Official Communication:

<b>Name:</b>	Todd Wells		Clair Gonzales
<b>Company:</b>	EOG Resources		Tetra Tech
<b>Address:</b>	5509 Champions Dr		901 W. Wall St.
			Ste 100
<b>City:</b>	Midland Texas, 79706		Midland, Texas
<b>Phone number:</b>	(432) 258-4346		(432) 682-4559
<b>Fax:</b>			
<b>Email:</b>	<a href="mailto:Todd_Wells@eogresources.com">Todd_Wells@eogresources.com</a>		<a href="mailto:Clair.Gonzales@tetrattech.com">Clair.Gonzales@tetrattech.com</a>

### Site Characterization

<b>Depth to Groundwater:</b>	17.56' Below Ground Surface
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### Recommended Remedial Action Levels (RRALs)

<b>Benzene</b>	<b>Total BTEX</b>	<b>TPH (GRO+DRO+MRO)</b>	<b>Chlorides</b>
10 mg/kg	50 mg/kg	100 mg/kg	600 mg/kg



March 3, 2023

New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: Closure Report  
EOG Resources  
Diamond 31 Fed Com Facility  
Lea County, New Mexico  
nAPP2227750429**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess a release that occurred at the Diamond 31 Fed Com Facility, Unit D, Section 31, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The spill site coordinates are 32.181270°, -103.516583°. The site location is shown on **Figures 1 and 2**.

## **Background**

According to the State of New Mexico C-141 Initial Report, the release at the Diamond 31 Fed Com Facility was caused by a failed manway gasket on the separator causing the release of 10 bbls of crude oil. The release occurred on the pad and migrated between onsite equipment, as well as overspray impacting the pasture to the Northwest of the pad, impacting an area of 203' X 56'. Additionally, approximately 1 bbls of fluids were recovered. On September 19, 2022, the release was discovered, and on October 4, 2022 the release was reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

## **Site Characterization**

### Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, playa lakes, springs, wetlands, subsurfaces mines, private domestic water wells, or floodplains located within the specified distances. Additionally, the site is located in a low karst area. The NFHL Map and USGS Mapper are shown in **Appendix B**.



### Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

### Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the two closest water wells within a 1 mile radius of the Site. The well reported on the USGS National Water Information System reports water level measured at 17.56 ft bgs and is approximately 0.65 miles of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 60 ft bgs and measured water level of 30 ft bgs and is approximately 0.94 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.65 Miles	5/29/1991	USGS	N/A	17.56'
0.94 Miles	1/1/1912	NMOSE	60'	30'

### **Regulatory**

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL beyond the top 4.0' of soil, for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, the proposed RRAL beyond the top 4.0' of soil, for chlorides is 600 mg/kg.

### **Site Assessment Activities**

Tetra Tech conducted site assessment activities on October 17, 2022. A total of three (3) auger holes (AH-1 through AH-3) were installed to total depths ranging from 1.0 ft to 4.5 ft bgs to attempt to assess and vertically delineate the impacted the area. The augers holes (AH-1 and AH-2) were not extended deeper to due to dense formation in the area. A total of six (6) horizontals (H-1 through H-6) were installed to total depths of 0.5 ft bgs, to horizontally delineate the impact. Additionally, a total of four (4) 5-point composite confirmation samples (CS-1



through CS-4) were installed to depths of 1.0 ft bgs in the pasture area that received superficial impact from the spray trajectory. The impact and sample locations are shown on **Figure 3**.

The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Referring to Table 1, auger holes (AH-1 and AH-3) indicated TPH concentrations above RRLs, with concentrations ranging from 110 mg/kg to 5,758 mg/kg, at depths ranging from surface to 4.5 ft bgs. Auger hole (AH-1) indicated a BTEX concentration above RRLs, with a concentration of 60.9 mg/kg, at a depth of 1.0 ft bgs. All auger holes (AH-1 through AH-3) did not indicate chloride concentrations above RRLs, and auger holes (AH-2 and AH-3) did not indicate benzene or BTEX concentrations above RRLs. Additionally, vertical delineation was found in auger hole (AH-2 and AH-3) for all constituents. However, vertical delineation was not found in auger hole (AH-1) for TPH. Horizontals (H-1 through H-8) did not indicate benzene, BTEX, TPH, or chloride concentrations above RRLs.

Additionally, referring to Table 1, all 5-point composite confirmation samples (CS-1 through CS-4), did not indicate benzene, BTEX, TPH, and chloride concentrations above the RRLs.

## Remediation Activities

Tetra Tech conducted remediation activities from December 28, 2022 through February 22, 2023. Due to safety concerns, the remediation was halted in December of 2022, so that EOG personnel could remove piping from the area to allow access for further remediation of impact. The areas of impact were remediated to a depths ranging from 2.0 ft bgs to 5.0 ft bgs. The remediation areas and depths are shown on **Figure 4**.

Following remediation activities, Tetra Tech conducted confirmation sampling by collecting 5-point composite bottom hole samples and 5-point composite sidewall samples every 200 square feet within the remediation. All confirmation samples were collected as a composite in a 5-point die pattern to ensure the samples were representative of the excavated area. The confirmation sample notification was sent to the NMOCD via email, on January 5, 2023, at 3:37 PM, a copy of the notice is shown in **Appendix D**. A total of four (4) bottom holes (BH-1 through BH-4) were collected and a total of fourteen (14) sidewalls (SW-1 through SW-14) were collected to confirm full removal of impacted soil. The confirmation soil samples were submitted to the Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 4500. The analytical results are summarized in **Table 2** and the analytical laboratory reports are included in **Appendix C**.

Regarding all final samples collected from the remediation, analytical results indicated benzene, BTEX, TPH, and chloride concentrations were below the RRLs.





## Conclusions

Based on the C-141 (nAPP2227750429) and information provided by EOG, Tetra Tech performed site characterization and groundwater research to determine groundwater depth, proximity from significant water features, and proximity from specified populated entities to determine RRALs and assess the impacted area. Based on the OCD *Guidelines for Remediation of Leaks, Spills, and Releases*, updated August 14, 2018, according to the groundwater data found during research activities, the RRALs of 600 mg/kg for chlorides and 100 mg/kg for TPH were followed. Based on Tetra Tech assessment activities, laboratory results indicated chloride concentrations in auger holes (AH-1 and AH-3) exceeded RRALs and required remediation.

Following remediation of the areas of impact, Tetra Tech conducted confirmation soil sampling of the area by collecting 5-point composite confirmation bottom hole and sidewall samples to ensure the impacted soil was fully removed. Approximately 113 cubic yards of impacted soil was removed and properly disposed of, and the area was backfilled with clean to surface grade material. The analytical results indicated all confirmation samples reported below the RRALs for all constituents. Based on this information, it is recommended that the remediated pad at this Site requires no further action. The final C-141 is included in **Appendix A**.

If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long,  
Project Manager

A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.  
Senior Project Manager

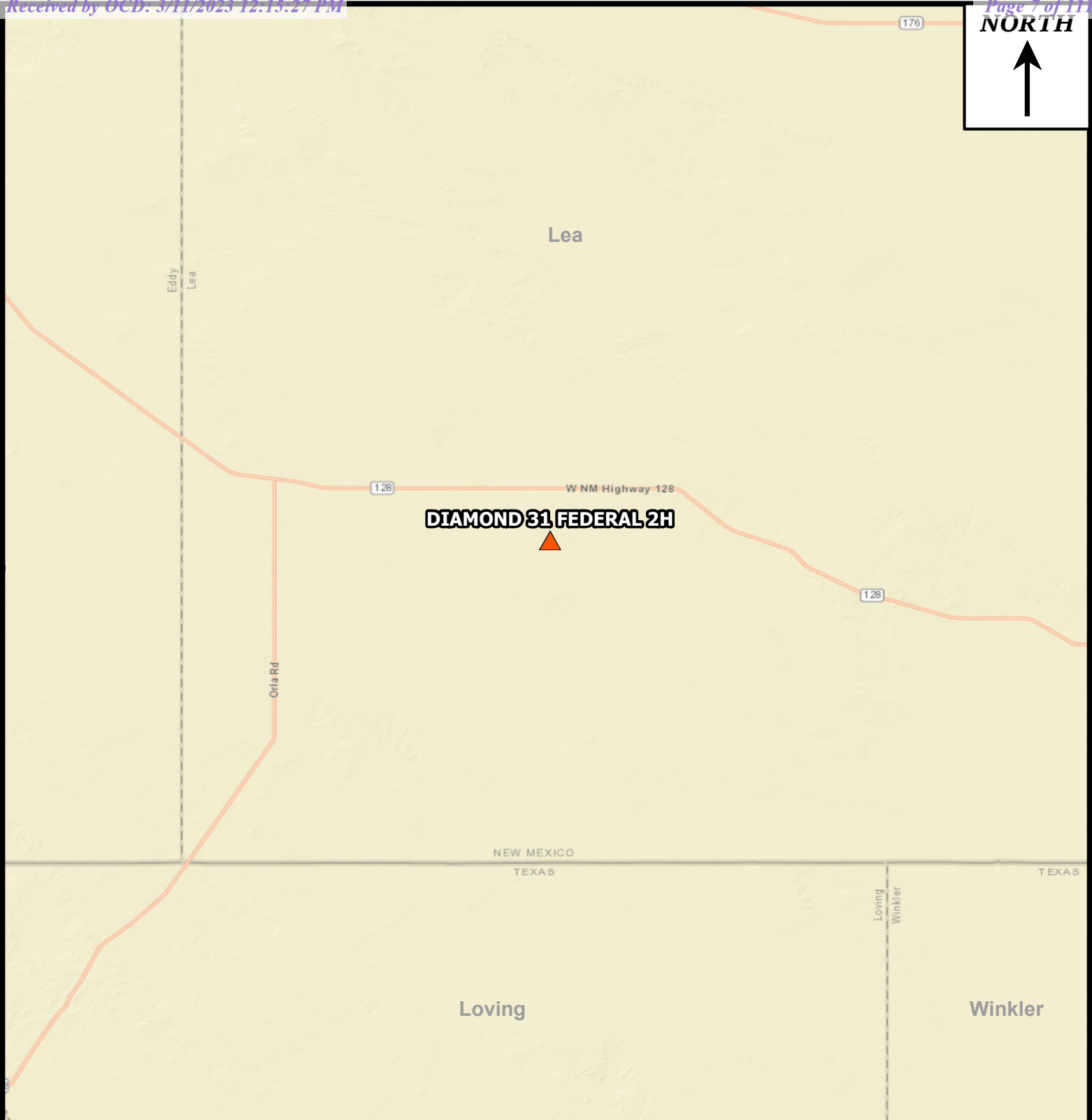


Figures

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NORTH



▲ SITE LOCATION

0 18,000 36,000  
Feet  
Approximate Scale

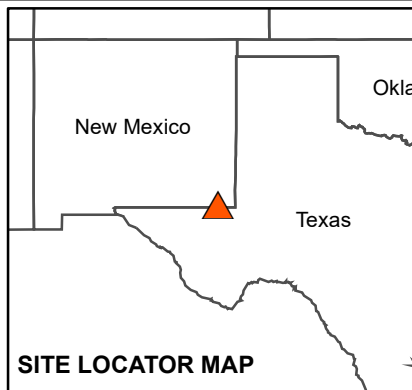


FIGURE 1  
OVERVIEW MAP  
DIAMOND 31 FED COM FACILITY  
LEA COUNTY, NEW MEXICO  
32.181270°, -103.516583°

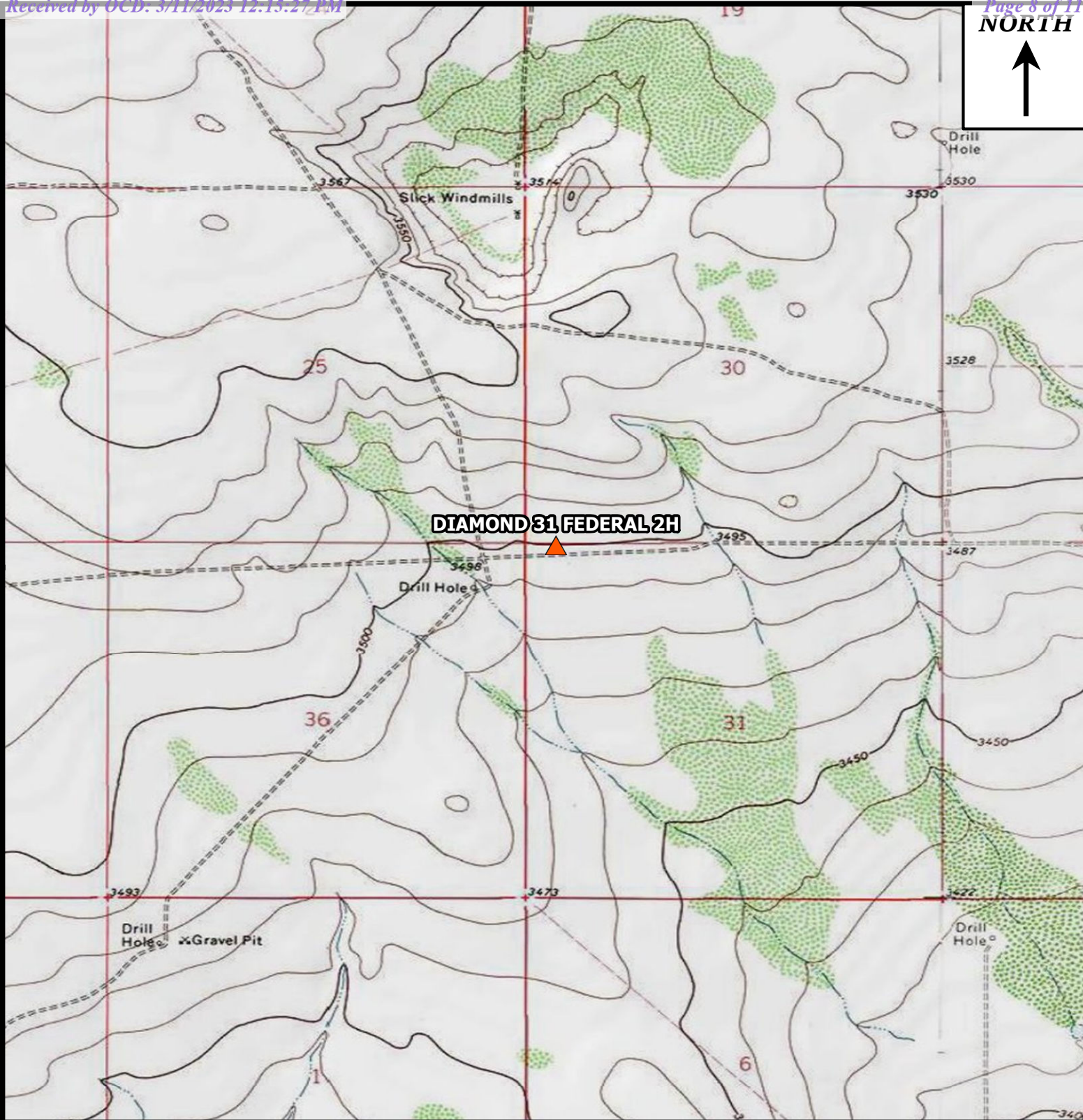
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Date: 2/28/2023

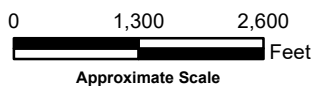
Name: Figure 1 - Diamond



Service Layer Credits: World Street Map, ESRI.



▲ SITE LOCATION



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed



**FIGURE 2**  
**TOPOGRAPHIC MAP DIAMOND**  
**31 FED COM FACILITY**  
**LEA COUNTY, NEW MEXICO**  
**32.181270°, -103.516583°**

Project: 212C-MD-02880

Date: 2/28/2023

Name: Figure 2 - Diamond





NORTH



- HORIZONTAL SAMPLE LOCATIONS
- AUGERHOLE SAMPLE LOCATIONS
- COMPOSITE SAMPLE POINTS
- RELEASE EXTENT
- SPRAY PATH

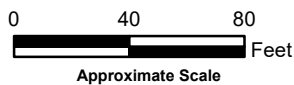


FIGURE 3  
SITE ASSESSMENT MAP  
DIAMOND  
LEA COUNTY, NEW MEXICO  
32.181265°, -103.51650°

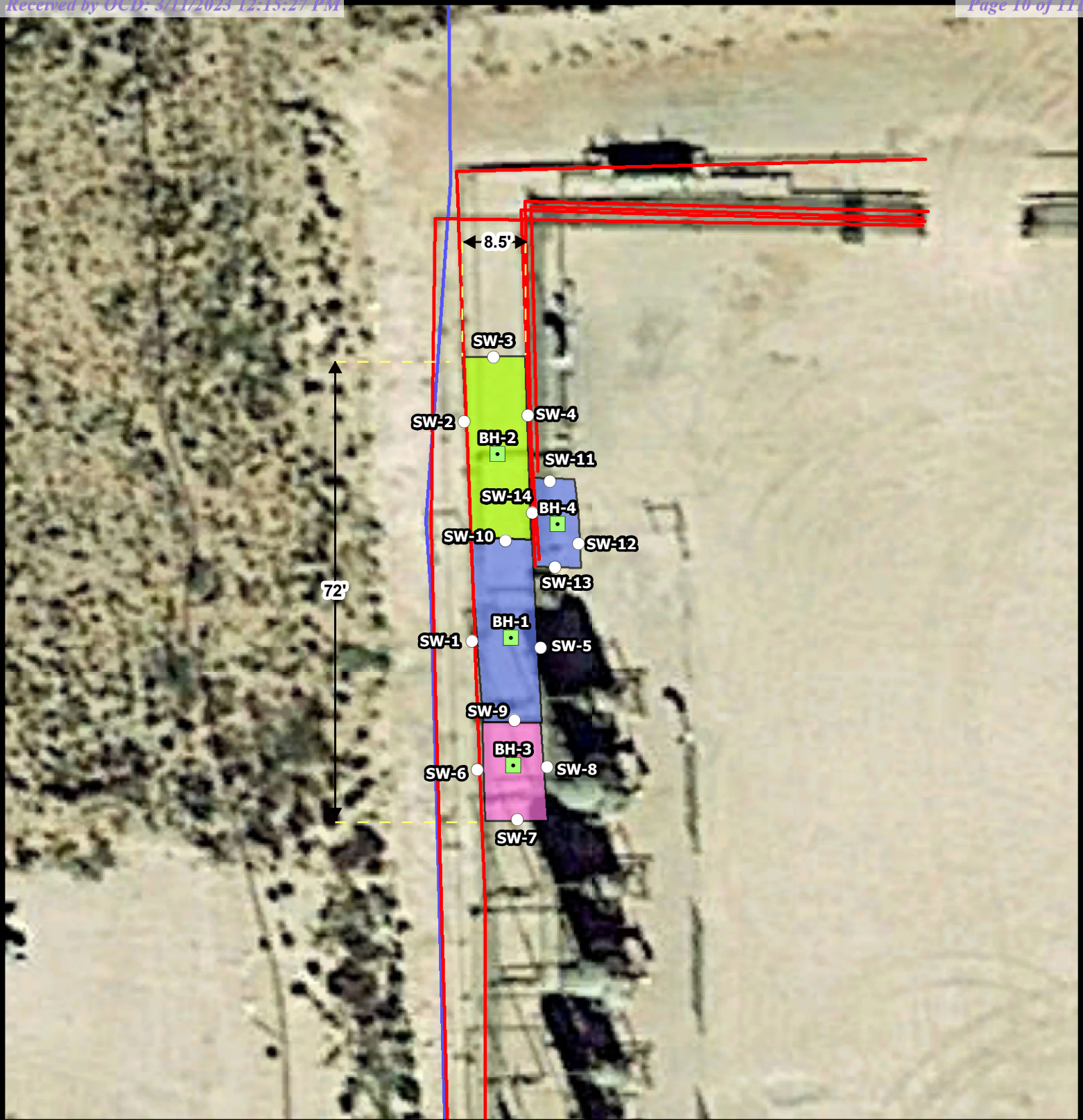
Project: 212C-MD-

Date: 2/28/2023

Name: Figure 3 - Diamond







- SURFACE POLYLINES
- SURFACE PIPELINES
- SIDEWALL SAMPLE LOCATIONS
- BOREHOLE SAMPLE LOCATIONS
- 2 FT EXCAVATION
- 4 FT EXCAVATION
- 5 FT EXCAVATION



Service Layer Credits: Google Maps, 2021.



**FIGURE 4**  
**EXCAVATION DEPTH & AREA MAP**  
**DIAMOND**  
**LEA COUNTY, NEW MEXICO**  
 32.181270°, -103.516583°

Project: 212C-MD-

Date: 2/28/2023

Name: Figure 4 - Diamond





## Tables

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**Table 1**  
**EOG Resources**  
**Diamond 31 Fed Com**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				BTEX (mg/kg)					Chloride (mg/kg)
			In-Situ	Removed	GRO mg/kg	DRO mg/kg	ORO mg/kg	Total mg/kg	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	Total (mg/Kg)	
RRALs					100 mg/kg	10 mg/kg	50 mg/kg					600 mg/kg		
Assessment														
AH-1	10/17/2022	0-1	X	-	799	4,180	779	5,758	<0.250	4.99	9.5	46.5	60.9	96.0
	"	1-1.5	X	-	123	721	146	990	<0.025	0.788	1.48	8.43	10.7	160
	"	2-2.5	X	-	<10.0	95.3	14.2	110	<0.025	<0.025	<0.025	0.274	0.274	192
	"	3-3.5	X	-	11.1	187	31.9	230	<0.025	<0.025	0.025	0.182	0.207	144
	"	4-4.5	X	-	<10.0	137	16.2	153	<0.025	<0.025	<0.025	0.128	<0.150	96.0
AH-2	10/17/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	80.0
AH-3	10/17/2022	0-1	X	-	12.4	576	96.2	685	<0.025	<0.025	<0.025	<0.075	<0.150	112
	"	1-1.5	X	-	<10.0	523	120	643	<0.025	<0.025	<0.025	<0.075	<0.150	256
	"	2-2.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	80.0
	"	3-3.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	80.0
	"	4-4.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	48.0
H-1	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	32.0
H-2	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	16.0
H-3	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	<16.0
H-4	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	208
H-5	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	48.0
H-6	10/17/2022	0-0.5	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	<16.0
5-Point Composite Confirmation Samples														
CS-1	10/17/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	<16.0
CS-2	10/17/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	<16.0
CS-3	10/17/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	<16.0
CS-4	10/17/2022	0-1	X	-	<10.0	<10.0	<10.0	<10.0	<0.025	<0.025	<0.025	<0.075	<0.150	32.0

**NOTES**

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks*.

All screening values and results are presented in milligrams per kilogram (mg/kg)

**Bolded cells represent a detected concentration above the respective screening value.**

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance

**Table 2**  
**EOG Resources**  
**Diamond 31 Fed Com**  
**Lea County, New Mexico**

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
RRALs			100 mg/kg						10 mg/kg		50 mg/kg		600 mg/kg	
BH-1	12/29/2022	4'	X	-	<10.0	24.5	<10.0	24.5	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-2	12/30/2022	2'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-3	2/16/2023	4'	X	-	104	930	201	1,235	<0.050	0.657	1.02	4.63	6.31	320
	2/22/2023	5'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
BH-4	2/16/2023	3'	X	-	<10.0	493	148	641	<0.050	<0.050	<0.050	<0.150	<0.300	720
	2/22/2023	4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-1	12/29/2022	0-4'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-2	12/30/2022	0-2'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-3	12/30/2022	0-2'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-4	12/30/2022	0-2'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-5	12/30/2022	0-4'	X	-	1,030	4,140	708	5,878	<1.00	13.6	14.1	52.6	80.3	176
	2/16/2023	0-4'	X	-	12.4	156	13.5	182	<0.050	<0.050	<0.050	0.26	<0.300	32.0
	2/22/2023	0-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-6	2/16/2023	0-4'	X	-	33.6	320	40.7	394	<0.050	0.097	0.219	1.09	1.4	32.0
	2/22/2023	0-5'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW-7	2/16/2023	0-4'	X	-	<10.0	110	14.0	124	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	2/22/2023	0-5'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-8	2/16/2023	0-4'	X	-	62.2	590	94.7	747	<0.050	0.675	1.45	6.47	8.59	112
	2/22/2023	0-5'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-9	2/16/2023	0-5'	X	-	75.4	845	156	1,076	<0.050	0.379	0.54	2.7	3.62	224
	2/22/2023	4-5'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-10	2/16/2023	2-4'	X	-	18.8	343	64.8	427	<0.050	<0.050	0.094	0.516	0.61	64.0
	2/22/2023	2-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-11	2/16/2023	0-3'	X	-	43.9	2,540	472	3,056	<0.050	<0.050	0.127	0.69	0.817	240
	2/22/2023	0-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW-12	2/16/2023	0-3'	X	-	80.1	1,110	233	1,423	<0.050	0.095	0.48	2.35	2.93	320
	2/22/2023	0-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-13	2/16/2023	0-3'	X	-	<10.0	719	204	923	<0.050	<0.050	<0.050	<0.150	<0.300	464
	2/22/2023	0-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-14	2/16/2023	2-3'	X	-	14.6	3,000	685	3,700	<0.050	<0.050	0.076	0.356	0.432	80.0
	2/22/2023	2-4'	X	-	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

**NOTES**RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Division) *Guidelines for Remediation of Leaks, Spills, and Releases*.

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**Bolded cells represent a detected concentration above the respective screening value.**


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ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

 Remediated



# Photographic Documentation

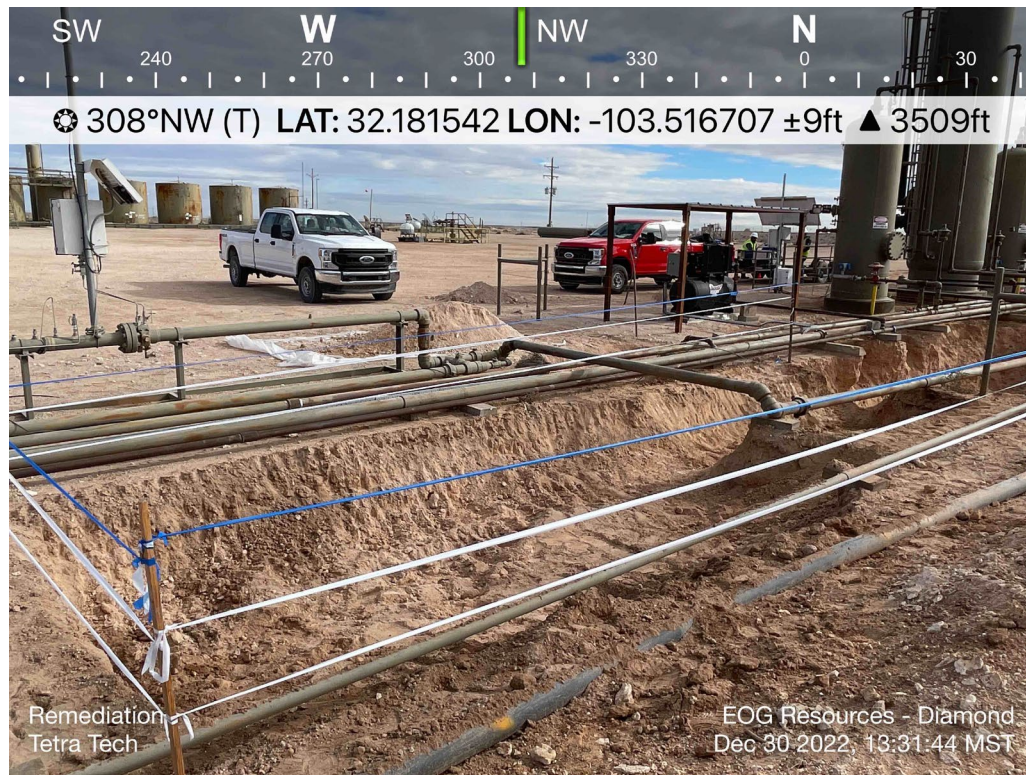
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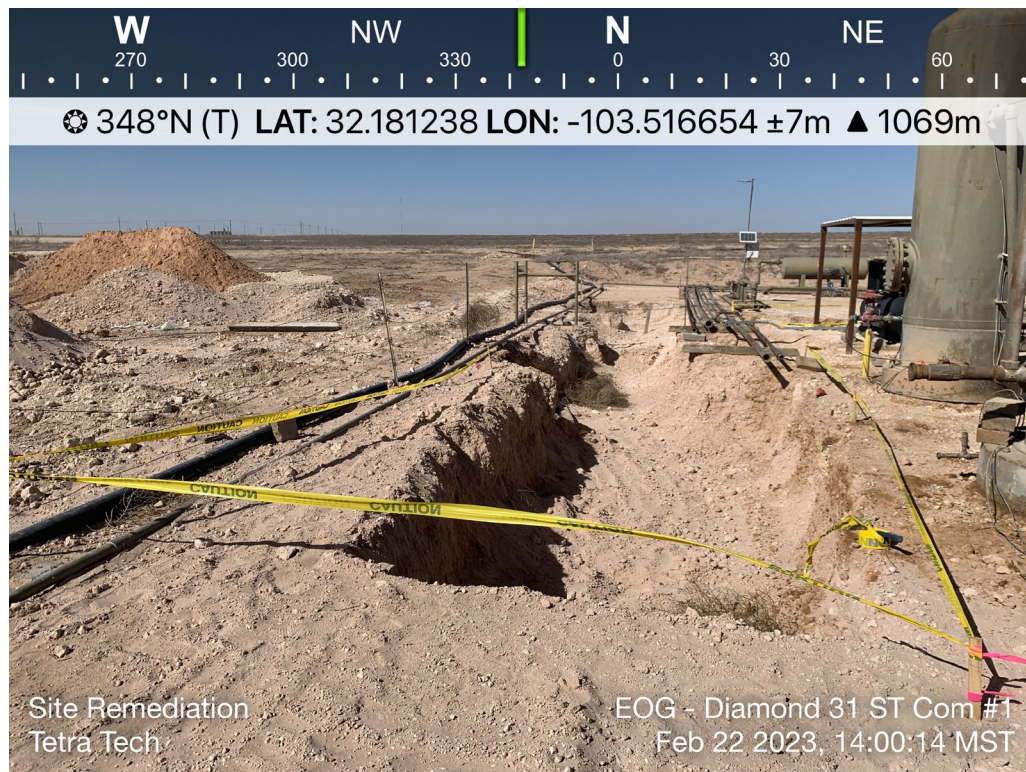
EOG Resources  
Diamond 31 Fed Com #2H  
Lea County, New Mexico



TETRA TECH



View Northwest – Excavation Area



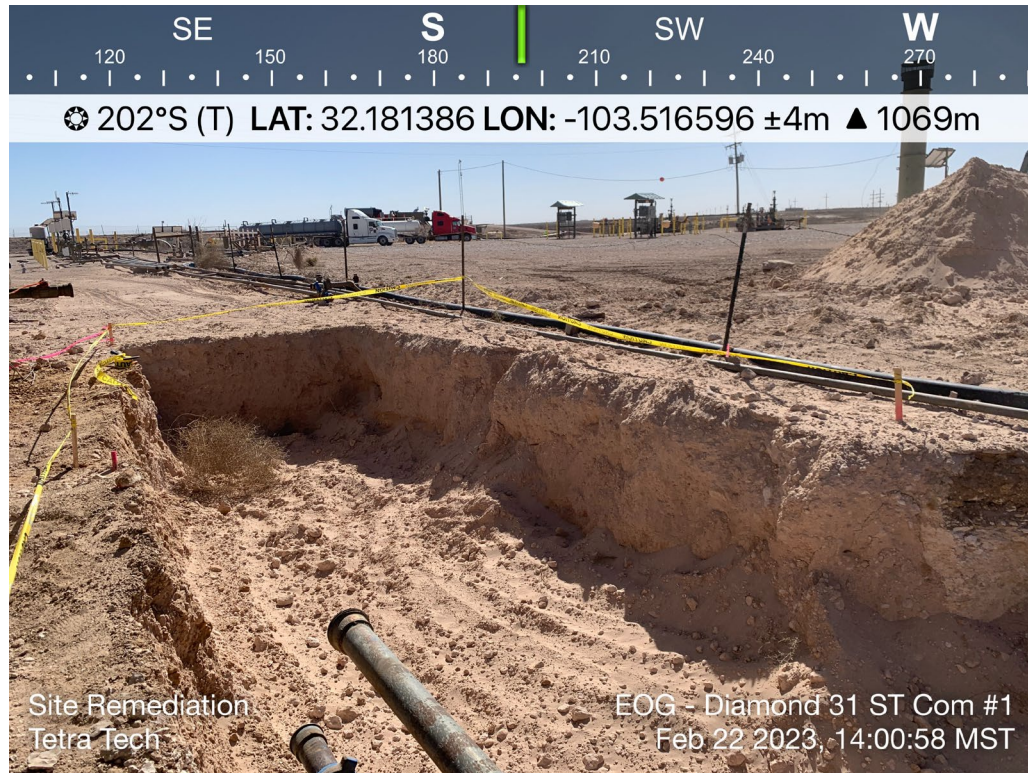
View North – Excavation Area



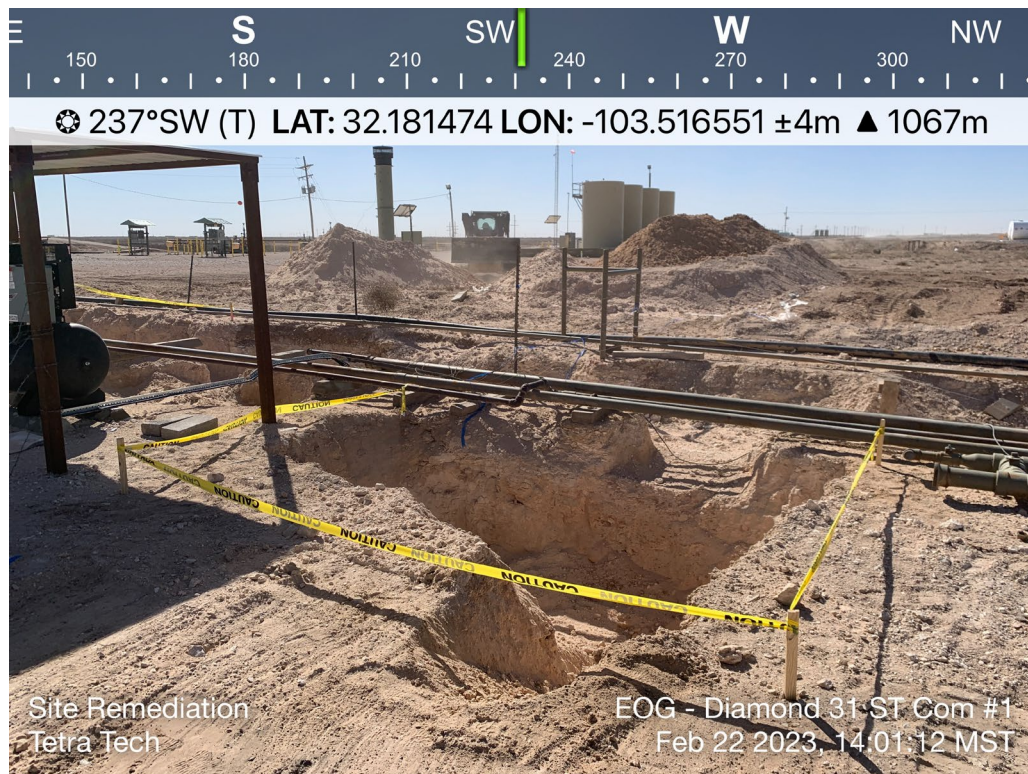
EOG Resources  
Diamond 31 Fed Com #2H  
Lea County, New Mexico



TETRA TECH



View South – Excavation Area



View Southwest – Excavation Area



# Appendix A

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C-141 Document

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2227750429
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2227750429
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.181270° Longitude -103.516583°  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Diamond 31 Fed Com Facility	Site Type Tank Battery
Date Release Discovered 9/19/22	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	31	24S	34E	Lea

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10	Volume Recovered (bbls) 1
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The manway gasket on the separator failed causing a mist of crude oil to spray on the ground around the equipment and off location into the pasture. Approximately 10 bbls of crude oil was released and 1 bbls recovered.



Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Todd Wells</u>	Title: <u>Environmental Specialist</u>
Signature: <u>Todd Wells</u>	Date: <u>10-4-22</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Todd Wells Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 03/13/2023

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Todd Wells Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: Jocelyn Harimon Date: 03/13/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 03/20/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A



## Appendix B

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Site Characterization Documents



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

**National Water Information System: Web Interface**


[USGS Water Resources](#)

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

 Important: [Next Generation Monitoring Location Page](#)

**Search Results -- 1 sites found**

Agency code = usgs  
site\_no list =

- 321127103310401

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 321127103310401 24S.33E.24.44444**

Lea County, New Mexico  
Latitude 32°11'27", Longitude 103°31'04" NAD27  
Land-surface elevation 3,538 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1953-11-27			D 62610		3518.95	NGVD29	1	Z		
1953-11-27			D 62611		3520.60	NAVD88	1	Z		
1953-11-27			D 72019	17.40			1	Z		
1976-01-21			D 62610		3522.78	NGVD29	1	Z		
1976-01-21			D 62611		3524.43	NAVD88	1	Z		
1976-01-21			D 72019	13.57			1	Z		
1981-03-19			D 62610		3520.32	NGVD29	1	Z		
1981-03-19			D 62611		3521.97	NAVD88	1	Z		
1981-03-19			D 72019	16.03			1	Z		
1986-03-06			D 62610		3521.55	NGVD29	1	Z		
1986-03-06			D 62611		3523.20	NAVD88	1	Z		
1986-03-06			D 72019	14.80			1	Z		
1991-05-29			D 62610		3518.79	NGVD29	1	Z		
1991-05-29			D 62611		3520.44	NAVD88	1	Z		
1991-05-29			D 72019	17.56			1	Z		

**Explanation**

Section	Code	Description
---------	------	-------------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title:** Groundwater for New Mexico: Water Levels

**URL:** [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321127103310401&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-04-18 10:37:34 EDT


0.35   0.32 nadww01





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	02309	2	2	2	25	24S	33E	639708	3562997 
Driller License:		Driller Company:							
Driller Name:		UNKNOWN							
Drill Start Date:		01/01/1912		Drill Finish Date:		06/30/1912		Plug Date:	
Log File Date:				PCW Rev Date:				Source:	
Pump Type:				Pipe Discharge Size:				Estimated Yield:	
Casing Size:		7.00		Depth Well:		60 feet		Depth Water:	
								40 GPM	
								30 feet	

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.

4/18/22 8:39 AM

POINT OF DIVERSION SUMMARY

**National Water Information System: Mapper**

Sites	Map
<b>Search</b>	
Search by Street Address: <input type="text" value="32.181103 -103.516523"/>	
Search by Place Name: <input type="text" value="Enter Place Name"/>	
Search by Site Number(s): <input type="text" value="Enter Site Number(s)"/>	
Search by State/Territory: <input type="text" value="Select an Area"/>	
Search by Watershed Region: <input type="text" value="Select a Region"/>	
<a href="#">Surface-Water Sites</a>	
<a href="#">Groundwater Sites</a>	
<a href="#">Springs</a>	
<a href="#">Atmospheric Sites</a>	
<a href="#">Other Sites</a>	

0 0.5 1.0 miles

-103.556, 32.263

USDA FSA, DigitalGlobe, Inc.

Site Information
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## NFHL Web Mapping Application



Data Layers

Measure



Search Result  
Y:32.181103 X:-103.516523  
2500 ft

100m  
300ft

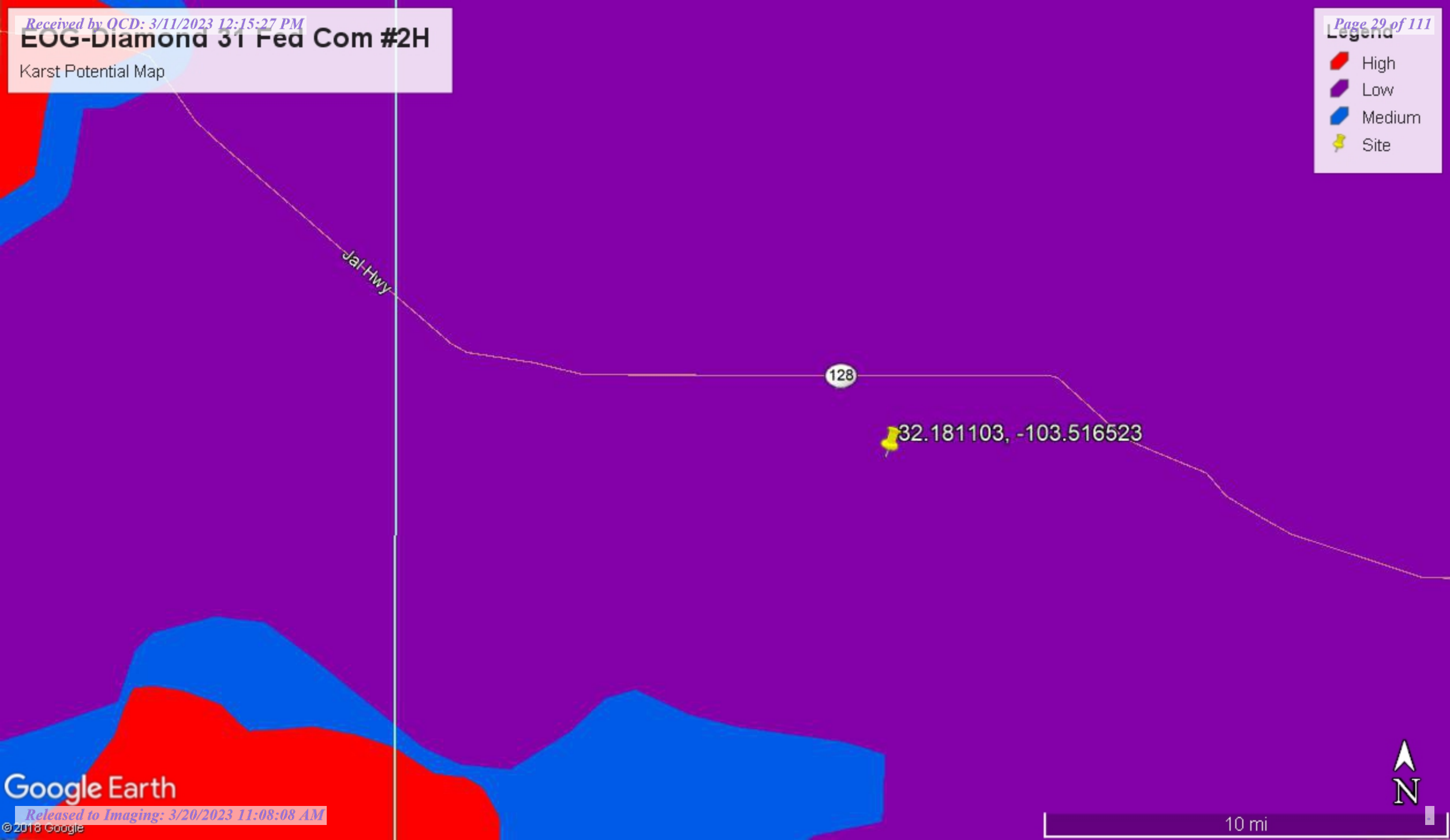
FEMA | Bureau of Land Management, Texas Parks & Wildlife

# EOG-Diamond 31 Fed Com #2H

Karst Potential Map

## Legend

- High
- Low
- Medium
- Site





# Appendix C

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## Laboratory Reports



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

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October 28, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 STATE COM

Enclosed are the results of analyses for samples received by the laboratory on 10/21/22 8:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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  
BRITTANY LONG  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701  
Fax To: (432) 682-3946

Received:	10/21/2022	Sampling Date:	10/17/2022
Reported:	10/28/2022	Sampling Type:	Soil
Project Name:	DIAMOND 31 STATE COM	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-XXXXX	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA CO NM		

**Sample ID: AH - 1 (0-1') (H224955-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	10/28/2022	ND	1.84	92.1	2.00	8.03	
<b>Toluene*</b>	<b>4.99</b>	0.250	10/28/2022	ND	1.88	94.1	2.00	6.24	
<b>Ethylbenzene*</b>	<b>9.50</b>	0.250	10/28/2022	ND	1.84	91.8	2.00	7.12	
<b>Total Xylenes*</b>	<b>46.5</b>	0.750	10/28/2022	ND	5.71	95.2	6.00	7.30	
<b>Total BTEX</b>	<b>60.9</b>	1.50	10/28/2022	ND					

Surrogate: Dibromofluoromethane 101 % 83.7-114

Surrogate: Toluene-d8 98.9 % 95.3-107

Surrogate: 4-Bromofluorobenzene 110 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	10/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>799</b>	10.0	10/26/2022	ND	178	88.9	200	3.58		
<b>DRO &gt;C10-C28*</b>	<b>4180</b>	10.0	10/26/2022	ND	180	89.8	200	4.51		
<b>EXT DRO &gt;C28-C36</b>	<b>779</b>	10.0	10/26/2022	ND						

Surrogate: 1-Chlorooctane 178 % 45.3-161

Surrogate: 1-Chlorooctadecane 234 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 1 (1-1.5') (H224955-02)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	0.788	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	1.48	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	8.43	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTX	10.7	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.7 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 127 % 50.9-150

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	10/26/2022	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	123	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	721	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	146	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 135 % 45.3-161  
Surrogate: 1-Chlorooctadecane 138 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 1 (2-2.5') (H224955-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
<b>Total Xylenes*</b>	<b>0.274</b>	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
<b>Total BTEX</b>	<b>0.274</b>	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 94.6 % 83.7-114  
Surrogate: Toluene-d8 98.2 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/26/2022	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	95.3	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	14.2	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161  
Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 1 (3-3.5') (H224955-04)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	0.182	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTX	0.207	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.0 % 83.7-114  
Surrogate: Toluene-d8 98.4 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/26/2022	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.1	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	187	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	31.9	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161  
Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 1 (4-4.5') (H224955-05)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03		
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12		
<b>Total Xylenes*</b>	<b>0.128</b>	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30		
Total BTEx	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 98.4 % 83.7-114  
Surrogate: Toluene-d8 99.5 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.8 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/26/2022	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	137	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	16.2	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161  
Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 2 (0-1') (H224955-06)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03		
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12		
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30		
Total BTX	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 99.3 % 83.7-114  
Surrogate: Toluene-d8 100 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.7 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 95.8 % 45.3-161  
Surrogate: 1-Chlorooctadecane 98.4 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 3 (0-1') (H224955-07)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03		
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12		
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30		
Total BTX	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 105 % 83.7-114  
Surrogate: Toluene-d8 98.8 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 104 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	576	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	96.2	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 96.4 % 45.3-161  
Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 3 (1-1.5') (H224955-08)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03	
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30	
Total BTX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 99.8 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 99.5 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/26/2022	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	523	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	120	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161  
Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 3 (2-2.5') (H224955-09)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03		
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12		
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30		
Total BTX	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 101 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 98.2 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161  
Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 3 (3-3.5') (H224955-10)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	1.84	92.1	2.00	8.03		
Toluene*	<0.025	0.025	10/28/2022	ND	1.88	94.1	2.00	6.24		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	1.84	91.8	2.00	7.12		
Total Xylenes*	<0.075	0.075	10/28/2022	ND	5.71	95.2	6.00	7.30		
Total BTEX	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 98.3 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 96.3 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161  
Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: AH - 3 (4-4.5') (H224955-11)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.6 % 83.7-114  
Surrogate: Toluene-d8 98.1 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 99.9 % 45.3-161  
Surrogate: 1-Chlorooctadecane 111 % 46.3-178

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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:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 1 (H224955-12)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 95.5 % 83.7-114  
Surrogate: Toluene-d8 100 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.0 % 50.9-150

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	10/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161  
Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 2 (H224955-13)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 100 % 83.7-114  
Surrogate: Toluene-d8 102 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 98.1 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161  
Surrogate: 1-Chlorooctadecane 117 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 3 (H224955-14)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.3 % 83.7-114  
Surrogate: Toluene-d8 100 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.9 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161  
Surrogate: 1-Chlorooctadecane 113 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 4 (H224955-15)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.0 % 83.7-114  
Surrogate: Toluene-d8 97.9 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 99.9 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	178	88.9	200	3.58	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	180	89.8	200	4.51	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 97.6 % 45.3-161  
Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 5 (H224955-16)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 99.5 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.3 % 50.9-150

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/27/2022	ND	223	112	200	1.66	
DRO >C10-C28*	<10.0	10.0	10/27/2022	ND	211	106	200	0.332	
EXT DRO >C28-C36	<10.0	10.0	10/27/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 45.3-161  
Surrogate: 1-Chlorooctadecane 88.3 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: H - 6 (H224955-17)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 100 % 83.7-114  
Surrogate: Toluene-d8 102 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 99.4 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 45.3-161  
Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 1 (1') (H224955-18)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEx	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.1 % 83.7-114  
Surrogate: Toluene-d8 101 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.2 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	226	113	200	4.68	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	195	97.6	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161  
Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 2 (1') (H224955-19)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTEX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 98.2 % 83.7-114  
Surrogate: Toluene-d8 98.4 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 102 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	212	106	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	215	107	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161  
Surrogate: 1-Chlorooctadecane 120 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 3 (1') (H224955-20)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87	
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55	
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78	
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91	
Total BTX	<0.150	0.150	10/28/2022	ND					

Surrogate: Dibromofluoromethane 97.7 % 83.7-114  
Surrogate: Toluene-d8 97.8 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 98.6 % 50.9-150

Chloride, SM4500Cl-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	10/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	212	106	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	215	107	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161  
Surrogate: 1-Chlorooctadecane 122 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2022  
Reported: 10/28/2022  
Project Name: DIAMOND 31 STATE COM  
Project Number: 212C-MD-XXXXX  
Project Location: EOG - LEA CO NM

Sampling Date: 10/17/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: CS - 4 (1') (H224955-21)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/28/2022	ND	2.03	101	2.00	3.87		
Toluene*	<0.025	0.025	10/28/2022	ND	2.08	104	2.00	5.55		
Ethylbenzene*	<0.025	0.025	10/28/2022	ND	2.01	100	2.00	3.78		
Total Xylenes*	<0.075	0.075	10/28/2022	ND	6.25	104	6.00	3.91		
Total BTEX	<0.150	0.150	10/28/2022	ND						

Surrogate: Dibromofluoromethane 97.6 % 83.7-114  
Surrogate: Toluene-d8 99.7 % 95.3-107  
Surrogate: 4-Bromofluorobenzene 97.4 % 50.9-150

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	10/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2022	ND	212	106	200	0.155	
DRO >C10-C28*	<10.0	10.0	10/26/2022	ND	215	107	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	10/26/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161  
Surrogate: 1-Chlorooctadecane 118 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

---

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager





# Tetra Tech, Inc.

901 West Wall St, Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Client Name: EOG Site Manager: Brittany Long

Project Name: Diamond 31 State Corn Contact Info: [Brittany.Long@tetratech.com](mailto:Brittany.Long@tetratech.com)

Project Location: Lea County, NM Project #: 212C-MD-XXXXX

Invoice to: EOG Attention Todd Wells

Receiving Laboratory: Cardinal Laboratories Sampler Signature: Gabe Huerta

Comments:

2:15:27 PM

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	REMARKS:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		DATE	TIME		WATER	SOIL	HCL	HNO <sub>3</sub>			ICE	BTEX 8021B	TPH TX1005 (Ext to	TPH 8015M ( GRO	PAH 8270C	Total Metals Ag As	TCLP Metals Ag As	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B	GC/MS Semi. Vol.	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300.0- 4	Chloride Sulfate	General Water Ch	Anion/Cation Bala	Asbestos																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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## ANALYSIS REQUEST (Circle or Specify Method No.)

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH TX1005 (Ext to C35)
<input checked="" type="checkbox"/>	TPH 8015M ( GRO - DRO - ORO)
<input checked="" type="checkbox"/>	PAH 8270C
<input checked="" type="checkbox"/>	Total Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC/MS Vol. 8260B / 624
<input checked="" type="checkbox"/>	GC/MS Semi. Vol. 8270C/625
<input checked="" type="checkbox"/>	PCB's 8082 / 608
<input checked="" type="checkbox"/>	NORM
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Chloride <del>800.0</del> 4500
<input checked="" type="checkbox"/>	Chloride Sulfate TDS
<input checked="" type="checkbox"/>	General Water Chemistry (see attached list)
<input checked="" type="checkbox"/>	Anion/Cation Balance
<input checked="" type="checkbox"/>	Asbestos
<input checked="" type="checkbox"/>	Hold

Relinquished by: Gabe Huerta Date: 10-21-22 Time: 0825  
Relinquished by: Date: Time:  
Relinquished by: Date: Time:

Received by: Date: Time:  
Received by: Date: Time:  
Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS:  
Standard 11 of 10-2  
RUSH: Same Day 24 hr 48 hr 72 hr  
☐ Rush Charges Authorized  
☐ Special Report Limits or TRRP Report

ORIGINAL COPY



## Analysis Request of Chain of Custody Record



# Tetra Tech, Inc.

901 West Wall St. Suite 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 2 of 2

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Page 25 of 25

Client Name: EOG

Site Manager: Brittany Long

Project Name:

Diamond 31 State Com

Contact Info:

[Brittany.Long@tetratech.com](mailto:Brittany.Long@tetratech.com)

Project Location:

Lea County, NM

Project #:

212C-MD-XXXXX

Invoice to:

EOG Attention Todd Wells

Receiving Laboratory:

Cardinal Laboratories

Sampler Signature:

Gabe Huerta

Comments:

LAB #

SAMPLE IDENTIFICATION

LAB USE ONLY

1624955

SAMPLING

YEAR

DATE

TIME

MATRIX

PRESERVATIVE METHOD

WATER  
SOILHCL  
HNO<sub>3</sub>  
ICE

# CONTAINERS

FILTERED (Y/N)

BTX 8021B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride 300.0 4500

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Asbestos

Hold

LAB USE ONLY

CS-4 (1')

CS-3 (1')

CS-2 (1')

CS-1 (1')

H-6

H-5

H-4

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H-2

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H-1

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LAB USE ONLY

CS-4 (1')

CS-3 (1')

CS-2 (1')

CS-1 (1')

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LAB USE ONLY

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LAB USE ONLY

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LAB USE ONLY

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LAB USE ONLY

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LAB USE ONLY

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LAB USE ONLY

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LAB USE ONLY

CS-4 (1')

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CS-2 (1')

CS-1 (1')

H-6

H-5

H-4

H-3

H-2

H-1

H-1

H-2

H-3

H-4



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

---

December 30, 2022

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 12/29/22 15:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/29/2022  
Reported: 12/30/2022  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/29/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH - 1 (4') (H226106-01)**

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	12/29/2022	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79	
Total BTX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	218	109	200	2.88	
DRO >C10-C28*	24.5	10.0	12/29/2022	ND	237	118	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 97.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 12/29/2022  
Reported: 12/30/2022  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/29/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 1 (0-4') (H226106-02)**

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	12/29/2022	ND	2.11	105	2.00	1.59	
Toluene*	<0.050	0.050	12/29/2022	ND	2.22	111	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/29/2022	ND	2.14	107	2.00	2.50	
Total Xylenes*	<0.150	0.150	12/29/2022	ND	6.57	109	6.00	2.79	
Total BTX	<0.300	0.300	12/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/29/2022	ND	218	109	200	2.88	
DRO >C10-C28*	<10.0	10.0	12/29/2022	ND	237	118	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	12/29/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

## Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901 W. Main Street, Ste. 100  
 Midland, Texas 79705  
 Tel (432) 682-4559  
 Fax (432) 682-3946

Page 1 of 1

Client Name: <b>EOln Resources</b>		Site Manager: <b>Brittany Long</b>	
Project Name: <b>Diamond 31 Fed Com #1</b>		Project #: <b>212C-MD-02880</b>	
Project Location: <b>Lea County, NM</b>		Invoice to: <b>EOln Resources - Attn. Todd Wells</b>	
Receiving Laboratory: <b>Cardinal Labs</b>		Sampler Signature: <b>Lepton Oliver</b>	
Comments: <b>Brittany.Long@tetratech.com</b>			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>			
1	BH-1 (4')	12/29/22		X						X BTEX 8021B BTEX 8260B
2	SM-1 (0-4')	12/29/22		X						X TPH TX1005 (Ext to C35)
										X TPH 8015M (GRO - DRO - ORO - MRO)
										PAH 8270C
										Total Metals Ag As Ba Cd Cr Pb Se Hg
										TCLP Metals Ag As Ba Cd Cr Pb Se Hg
										TCLP Volatiles
										TCLP Semi Volatiles
										RCI
										GC/MS Vol. 8260B / 624
										GC/MS Semi. Vol. 8270C/625
										PCB's 8082 / 608
										NORM
										PLM (Asbestos)
										Chloride
										Chloride Sulfate TDS
										General Water Chemistry (see attached list)
										Anion/Cation Balance
										Hold

Relinquished by: <b>Lepton Oliver</b>	Date: <b>12/29/22</b>	Time: <b>1523</b>	Received by: <b>Brittany Long</b>	Date: <b>12/29/22</b>	Time: <b>1533</b>
Relinquished by: <b>Lepton Oliver</b>	Date: <b>12/29/22</b>	Time: <b>1533</b>	Received by: <b>Brittany Long</b>	Date: <b>12/29/22</b>	Time: <b>1533</b>

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day (24 hr) 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Sample Temperature: <b>20.0°C</b> (Circle) HAND DELIVERED FEDEX UPS Tracking #: <b>90821</b>

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---

January 03, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 12/30/22 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	12/30/2022	Sampling Date:	12/30/2022
Reported:	01/03/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM #1	Sampling Condition:	** (See Notes)
Project Number:	212C-MD-02880	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - LEA COUNTY, NM		

**Sample ID: SW - 5 (0-4') (H226124-01)**

BTX 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	01/03/2023	ND	1.98	99.1	2.00	1.10	
<b>Toluene*</b>	<b>13.6</b>	1.00	01/03/2023	ND	2.09	105	2.00	2.78	
<b>Ethylbenzene*</b>	<b>14.1</b>	1.00	01/03/2023	ND	2.03	101	2.00	4.30	
<b>Total Xylenes*</b>	<b>52.6</b>	3.00	01/03/2023	ND	6.21	103	6.00	4.08	
<b>Total BTX</b>	<b>80.3</b>	6.00	01/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>176</b>	16.0	01/03/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>1030</b>	10.0	01/03/2023	ND	181	90.3	200	3.77	
<b>DRO &gt;C10-C28*</b>	<b>4140</b>	10.0	01/03/2023	ND	164	81.8	200	7.58	
<b>EXT DRO &gt;C28-C36</b>	<b>708</b>	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 158 % 45.3-161

Surrogate: 1-Chlorooctadecane 125 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

901W Wall Street, Ste 100  
Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 1 of 1

Page 4 of 4

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---

January 05, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM #1

Enclosed are the results of analyses for samples received by the laboratory on 12/30/22 16:15.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/30/2022  
Reported: 01/05/2023  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/30/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 2 (0-2') (H226126-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/03/2023	ND	1.98	99.1	2.00	1.10	
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78	
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30	
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08	
Total BTEX	<0.300	0.300	01/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/03/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.2 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/30/2022  
Reported: 01/05/2023  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/30/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 3 (0-2') (H226126-02)**

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	01/03/2023	ND	1.98	99.1	2.00	1.10		
Toluene*	<0.050	0.050	01/03/2023	ND	2.09	105	2.00	2.78		
Ethylbenzene*	<0.050	0.050	01/03/2023	ND	2.03	101	2.00	4.30		
Total Xylenes*	<0.150	0.150	01/03/2023	ND	6.21	103	6.00	4.08		
Total BTX	<0.300	0.300	01/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/03/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 12/30/2022  
Reported: 01/05/2023  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/30/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: SW - 4 (0-2') (H226126-03)**

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	01/04/2023	ND	2.01	100	2.00	1.09		
Toluene*	<0.050	0.050	01/04/2023	ND	2.09	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	01/04/2023	ND	1.99	99.3	2.00	7.90		
Total Xylenes*	<0.150	0.150	01/04/2023	ND	6.04	101	6.00	10.2		
Total BTEx	<0.300	0.300	01/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/03/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/03/2023	ND	181	90.3	200	3.77	
DRO >C10-C28*	<10.0	10.0	01/03/2023	ND	164	81.8	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	01/03/2023	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.3 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 12/30/2022  
Reported: 01/05/2023  
Project Name: DIAMOND 31 FED COM #1  
Project Number: 212C-MD-02880  
Project Location: EOG - LEA COUNTY, NM

Sampling Date: 12/30/2022  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH - 2 (2') (H226126-04)**

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	01/04/2023	ND	2.01	100	2.00	1.09		
Toluene*	<0.050	0.050	01/04/2023	ND	2.09	105	2.00	4.38		
Ethylbenzene*	<0.050	0.050	01/04/2023	ND	1.99	99.3	2.00	7.90		
Total Xylenes*	<0.150	0.150	01/04/2023	ND	6.04	101	6.00	10.2		
Total BTX	<0.300	0.300	01/04/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/03/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/04/2023	ND	205	103	200	3.65	
DRO >C10-C28*	<10.0	10.0	01/04/2023	ND	196	98.0	200	6.33	
EXT DRO >C28-C36	<10.0	10.0	01/04/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.7 % 46.3-178

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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

## Page 1 of 1



Client Name:	EOG Resources	Site Manager:	Brittany Long
--------------	---------------	---------------	---------------

[Brittany.Long@tetrattech.com](mailto:Brittany.Long@tetrattech.com)

Project #: 212C-MD-02880

Receiving Laboratory:	Cardinal Lake	Sampler Signature:	Peyton Oliver
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Comments:

ANALYSIS REQUEST												
(Circle or Specify Method No.)												
BTEX 8201B BTEX 8260B												
TPH TX1005 (Ext to C35)												
TPH 8015M ( GRO - DRO - ORO - MRO)												
PAH 8270C												
Total Metals Ag As Ba Cd Cr Pb Se Hg												
TCLP Metals Ag As Ba Cd Cr Pb Se Hg												
TCLP Volatiles												
TCLP Semi Volatiles												
RCI												
GC/MS Vol. 8260B / 624												
GC/MS Semi. Vol. 8270C/625												
PCB's 8082 / 608												
NORM												
PLM (Asbestos)												
Chloride												
Chloride Sulfate TDS												
General Water Chemistry (see attached list)												
Anion/Cation Balance												
Hold												

LAB USE ONLY

Sample Temperature

20.5 #113

21.1/20.0

REMARKS:

☒ STANDARD

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED

FEDEx UPS Tracking #

Released to Imaging: 3/20/2023 11:08:08 AM



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February 20, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 ST COM #1

Enclosed are the results of analyses for samples received by the laboratory on 02/17/23 16:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 5 (H230768-01)**

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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
<b>Total Xylenes*</b>	<b>0.260</b>	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTX	<0.300	0.300	02/18/2023	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
<b>Chloride</b>	<b>32.0</b>	16.0	02/20/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>12.4</b>	10.0	02/18/2023	ND	246	123	200	21.9	
<b>DRO &gt;C10-C28*</b>	<b>156</b>	10.0	02/18/2023	ND	229	115	200	24.1	QM-07
<b>EXT DRO &gt;C28-C36</b>	<b>13.5</b>	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 6 (H230768-02)**

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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	0.097	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	0.219	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	1.09	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTEx	1.40	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	02/20/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	33.6	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	320	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	40.7	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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  
BRITTANY LONG  
901 WEST WALL STREET , STE 100  
MIDLAND TX, 79701  
Fax To: (432) 682-3946

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 7 (H230768-03)**

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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTEx	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	110	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	14.0	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 8 (H230768-04)**

BTX 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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	0.675	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	1.45	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	6.47	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTX	8.59	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 167 % 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	112	16.0	02/20/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	62.2	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	590	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	94.7	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 9 (H230768-05)**

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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	0.379	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	0.540	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	2.70	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTEx	3.62	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	224	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	75.4	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	845	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	156	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 10 (H230768-06)**

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	02/18/2023	ND	2.09	105	2.00	1.76		
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37		
Ethylbenzene*	0.094	0.050	02/18/2023	ND	2.01	101	2.00	2.22		
Total Xylenes*	0.516	0.150	02/18/2023	ND	6.07	101	6.00	2.87		
Total BTEX	0.610	0.300	02/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	64.0	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18.8	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	343	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	64.8	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 11 (H230768-07)**

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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	0.127	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	0.690	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTEX	0.817	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	240	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	43.9	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	2540	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	472	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 12 (H230768-08)**

BTX 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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	0.095	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	0.480	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	2.35	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTX	2.93	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 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	320	16.0	02/20/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	80.1	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	1110	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	233	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 13 (H230768-09)**

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	02/18/2023	ND	2.09	105	2.00	1.76		
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37		
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.01	101	2.00	2.22		
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.07	101	6.00	2.87		
Total BTEx	<0.300	0.300	02/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	464	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	719	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	204	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: SW - 14 (H230768-10)**

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	02/18/2023	ND	2.09	105	2.00	1.76		
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37		
Ethylbenzene*	0.076	0.050	02/18/2023	ND	2.01	101	2.00	2.22		
Total Xylenes*	0.356	0.150	02/18/2023	ND	6.07	101	6.00	2.87		
Total BTEX	0.432	0.300	02/18/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	80.0	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.6	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	3000	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	685	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 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:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: BH - 3 (H230768-11)**

BTX 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	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	<b>0.657</b>	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	<b>1.02</b>	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	<b>4.63</b>	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTX	<b>6.31</b>	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 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	<b>320</b>	16.0	02/20/2023	ND	416	104	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<b>104</b>	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	<b>930</b>	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	<b>201</b>	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	02/17/2023	Sampling Date:	02/16/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	DIAMOND 31 ST COM #1	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-02880	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO., NM		

**Sample ID: BH - 4 (H230768-12)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.76	
Toluene*	<0.050	0.050	02/18/2023	ND	2.07	103	2.00	1.37	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.01	101	2.00	2.22	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.07	101	6.00	2.87	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	720	16.0	02/20/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2023	ND	246	123	200	21.9	
DRO >C10-C28*	493	10.0	02/18/2023	ND	229	115	200	24.1	
EXT DRO >C28-C36	148	10.0	02/18/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.0 % 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-04	The RPD for the BS/BSD was outside of historical limits.
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

## Analysis Request of Custody Record

Page 1 of 2



Tetra Tech, Inc.

 901 W. Wall Street, Ste 100  
 Midland, Texas 79705  
 Tel (432) 882-4559  
 Fax (432) 882-3946

Client Name: EOG		Site Manager: Bridget Long	
Project Name: Diamond 31 St Cor #1		Project #: 212C-MO-02880	
Project Location: (county, state) Lea County, NM		Invoice to: AHA: EOG Todd Wells	
Receiving Laboratory: Cardinal Labs		Sampler Signature: [Signature]	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		YEAR: 2020	2023												
1	SW-5			2/16			X								X BTEX 8021B BTEX 8260B
2	SW-6														X TPH TX1005 (Ext to C35)
3	SW-7														X TPH 8015M (GRO - DRO - ORO - MRO)
4	SW-8														PAH 8270C
5	SW-9														Total Metals Ag As Ba Cd Cr Pb Se Hg
6	SW-10														TCLP Metals Ag As Ba Cd Cr Pb Se Hg
7	SW-11														TCLP Volatiles
8	SW-12														TCLP Semi Volatiles
9	SW-13														RCI
10	SW-14														GC/MS Vol. 8260B / 624
															GC/MS Semi. Vol. 8270C/625
															PCB's 8082 / 608
															NORM
															PLM (Asbestos)
															Chloride
															Chloride Sulfate TDS
															General Water Chemistry (see attached list)
															Anion/Cation Balance
															Hold

Relinquished by: [Signature]	Date: 2-17-23	Time:	Received by: [Signature]	Date: 2-17-23	Time:
Relinquished by: [Signature]	Date:	Time:	Received by: [Signature]	Date:	Time:

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day 24 hr 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Sample Temperature 4.6°C C-0.6°C 4.0°C #113

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## Analysis Request of Chain of Custody Record

Page 2 of 2



## Tetra Tech, Inc.

 9011W Main Street, Ste 100  
 Midland, Texas 79705  
 Tel (432) 682-4559  
 Fax (432) 682-3946

Client Name: <b>EO4</b>		Site Manager: <b>Billy Long</b>	
Project Name: <b>Diamond 31st Con #1</b>		Project #: <b>2121-MD-02 880</b>	
Project Location: (county, state) <b>Lea County, NM</b>		Project #: <b>2121-MD-02 880</b>	
Invoice to: <b>Adani EO4 Todd Wills</b>		Sampler Signature: <b>Myra A. Lee</b>	
Receiving Laboratory: <b>Cardinal Lab</b>		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		YEAR: 2020	2023			WATER	SOIL	HCL	HNO <sub>3</sub>	ICE	None			
<b>H230768</b>														
	<b>BA-3</b>			<b>2-16</b>			<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/> BTEX 8021B BTEX 8260B
	<b>BA-4</b>			<b>2-16</b>			<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/> TPH TX1005 (Ext to C35)
														<input checked="" type="checkbox"/> TPH 8015M (GRO - DRO - ORO - MRO)
														<input checked="" type="checkbox"/> PAH 8270C
														<input checked="" type="checkbox"/> Total Metals Ag As Ba Cd Cr Pb Se Hg
														<input checked="" type="checkbox"/> TCLP Metals Ag As Ba Cd Cr Pb Se Hg
														<input checked="" type="checkbox"/> TCLP Volatiles
														<input checked="" type="checkbox"/> TCLP Semi Volatiles
														<input checked="" type="checkbox"/> RCI
														<input checked="" type="checkbox"/> GC/MS Vol. 8260B / 624
														<input checked="" type="checkbox"/> GC/MS Semi. Vol. 8270C/625
														<input checked="" type="checkbox"/> PCB's 8082 / 608
														<input checked="" type="checkbox"/> NORM
														<input checked="" type="checkbox"/> PLM (Asbestos)
														<input checked="" type="checkbox"/> Chloride
														<input checked="" type="checkbox"/> Chloride Sulfate TDS
														<input checked="" type="checkbox"/> General Water Chemistry (see attached list)
														<input checked="" type="checkbox"/> Anion/Cation Balance
														<input checked="" type="checkbox"/> Hold

Reinquished by: <b>Myra A. Lee</b>	Date: <b>2-17-23</b>	Time:	Received by: <b>Myra A. Lee</b>	Date: <b>2-17-23</b>	Time: <b>16:18</b>
Reinquished by:	Date:	Time:	Received by:	Date:	Time:
Reinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD <input checked="" type="checkbox"/> RUSH: Same Day (24 hr) 48 hr 72 hr <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	Sample Temperature <b>46.0°C</b> <b>40.0°C</b> <b>4.0°C #113</b>

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February 24, 2023

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 ST COM #1

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 8:15.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 5	H230842-01	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 6	H230842-02	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 7	H230842-03	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 8	H230842-04	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 9	H230842-05	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 10	H230842-06	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 11	H230842-07	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 12	H230842-08	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 13	H230842-09	Soil	22-Feb-23 00:00	23-Feb-23 08:15
SW - 14	H230842-10	Soil	22-Feb-23 00:00	23-Feb-23 08:15
BH - 3 (5')	H230842-11	Soil	22-Feb-23 00:00	23-Feb-23 08:15
BH - 4 (4')	H230842-12	Soil	22-Feb-23 00:00	23-Feb-23 08:15

02/24/23 - A typo was made at login for sample -08. This is the revised report with the corrected sample ID and replaces the report sent on 02/23/23.

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 5****H230842-01 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			81.0 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			79.4 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 6****H230842-02 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			86.1 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.9 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 7****H230842-03 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			106 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 8****H230842-04 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			85.1 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			83.1 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 9****H230842-05 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			81.9 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			82.6 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 10****H230842-06 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			87.1 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			86.5 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 11**  
**H230842-07 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.4 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.5 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 12**  
**H230842-08 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			82.3 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			83.5 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 13**  
**H230842-09 (Soil)**

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

<b>Chloride</b>	<b>64.0</b>		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			77.5 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			77.3 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**SW - 14**  
**H230842-10 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			87.8 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			89.6 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**BH - 3 (5')**  
**H230842-11 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			83.2 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			84.8 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**BH - 4 (4')**  
**H230842-12 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	3022309	AC	23-Feb-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3022307	JH	23-Feb-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3022307	JH	23-Feb-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	71.5-134		3022307	JH	23-Feb-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3022302	MS	23-Feb-23	8015B	

Surrogate: 1-Chlorooctane			85.7 %	48.2-134		3022302	MS	23-Feb-23	8015B	
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Surrogate: 1-Chlorooctadecane			84.9 %	49.1-148		3022302	MS	23-Feb-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3022309 - 1:4 DI Water</b>									
<b>Blank (3022309-BLK1)</b>					Prepared & Analyzed: 23-Feb-23				
Chloride	ND	16.0	mg/kg						
<b>LCS (3022309-BS1)</b>					Prepared & Analyzed: 23-Feb-23				
Chloride	416	16.0	mg/kg	400	104	80-120			
<b>LCS Dup (3022309-BSD1)</b>					Prepared & Analyzed: 23-Feb-23				
Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3022307 - Volatiles****Blank (3022307-BLK1)**

Prepared &amp; Analyzed: 23-Feb-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	71.5-134			

**LCS (3022307-BS1)**

Prepared &amp; Analyzed: 23-Feb-23

Benzene	2.19	0.050	mg/kg	2.00		110	81.4-118			
Toluene	2.12	0.050	mg/kg	2.00		106	88.7-121			
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	86.1-120			
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	88.2-124			
o-Xylene	1.99	0.050	mg/kg	2.00		99.5	84.9-118			
Total Xylenes	6.16	0.150	mg/kg	6.00		103	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0471		mg/kg	0.0500		94.2	71.5-134			

**LCS Dup (3022307-BSD1)**

Prepared &amp; Analyzed: 23-Feb-23

Benzene	1.91	0.050	mg/kg	2.00		95.7	81.4-118	13.7	15.8	
Toluene	1.85	0.050	mg/kg	2.00		92.3	88.7-121	14.0	15.9	
Ethylbenzene	1.76	0.050	mg/kg	2.00		88.1	86.1-120	14.2	16	
m,p-Xylene	3.64	0.100	mg/kg	4.00		91.0	88.2-124	13.5	16.2	
o-Xylene	1.76	0.050	mg/kg	2.00		88.0	84.9-118	12.2	16.7	
Total Xylenes	5.40	0.150	mg/kg	6.00		90.0	87.3-122	13.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0482		mg/kg	0.0500		96.4	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Project: DIAMOND 31 ST COM #1  
Project Number: 212C-MD-02880  
Project Manager: BRITTANY LONG  
Fax To: (432) 682-3946

Reported:  
24-Feb-23 08:29

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3022302 - General Prep - Organics****Blank (3022302-BLK1)**

Prepared &amp; Analyzed: 23-Feb-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.2	48.2-134			
Surrogate: 1-Chlorooctadecane	43.3		mg/kg	50.0		86.6	49.1-148			

**LCS (3022302-BS1)**

Prepared &amp; Analyzed: 23-Feb-23

GRO C6-C10	185	10.0	mg/kg	200		92.4	78.5-124			
DRO >C10-C28	172	10.0	mg/kg	200		85.8	72.5-126			
Total TPH C6-C28	356	10.0	mg/kg	400		89.1	77.6-123			
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		91.9	48.2-134			
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.8	49.1-148			

**LCS Dup (3022302-BS1)**

Prepared &amp; Analyzed: 23-Feb-23

GRO C6-C10	199	10.0	mg/kg	200		99.4	78.5-124	7.25	17.7	
DRO >C10-C28	185	10.0	mg/kg	200		92.3	72.5-126	7.34	21	
Total TPH C6-C28	383	10.0	mg/kg	400		95.8	77.6-123	7.29	18.5	
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		97.0	48.2-134			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.1	49.1-148			

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager

### Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 1 of 1

Page 19 of 20

Project Name:		EOG		Site Manager:		Brittany Long	
Project Location:		Diamond 31 St Com #1		(432) 741-6813			
(county, state)		Lea County, NM		Project #:		Brittany.long@terratech.com	
Invoice to:		ATTN : EOG Todd Wells		212C-MD-02880			
Receiving Laboratory:		Cardinal Labs		Sampler Signature:		Miguel A. Flores	
Comments:							
LAB #		H230842					
(LAB USE ONLY)		SAMPLE IDENTIFICATION					
SW-5		2/22/2023		DATE		TIME	
SW-6		2/22/2023		DATE		TIME	
SW-7		2/22/2023		DATE		TIME	
SW-8		2/22/2023		DATE		TIME	
SW-9		2/22/2023		DATE		TIME	
SW-10		2/22/2023		DATE		TIME	
SW-11		2/22/2023		DATE		TIME	
SW-12		2/22/2023		DATE		TIME	
SW-13		2/22/2023		DATE		TIME	
SW-14		2/22/2023		DATE		TIME	
Relinquished by:		Miguel A Flores		Received by:		Miguel A Flores	
Date:		Time:		Date:		Time:	
Relinquished by:				Received by:			
Date:		Time:		Date:		Time:	
Relinquished by:				Received by:			
Date:		Time:		Date:		Time:	
LAB USE ONLY		REMARKS:					
Sample Temperature		RUSH: Same Day 24 hr 48 hr 72 hr					
Rush Charges Authorized		Special Report Limits or TRRP Report					
FEDEx UPS Tracking #:							

### Analysis Request of Chain of Custody Record

# Tetra Tech, Inc.

901 W Wall Street, Ste 100  
Midland, Texas 79701  
Tel (432) 682-4559  
Fax (432) 682-3946

Page 2 of 2

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Diamond 31 St Com #1

(432) 741-5813

Project Location:

Lea County, NM

Project #:

[Brittany.long@tetratech.com](mailto:Brittany.long@tetratech.com)

Invoice to:

ATTN: EOG Todd Wells

Receiving Laboratory:

Caardinal Labs

Sampler Signature:

Miguel A. Flores

Comments:

LAB #  
LAB USE ONLY  
SAMPLE IDENTIFICATION

SAMPLING  
YEAR 2023  
DATE  
TIME

MATRIX  
WATER  
SOIL  
HCL  
HNO<sub>3</sub>  
ICE

PRESERVATIVE  
METHOD

# CONTAINERS  
FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

TPH 8015M ( GRO - DRO - ORO - MRO)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by: Miguel A Flores

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



## Appendix D

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State Correspondence



**Long, Brittany**

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**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Tuesday, January 3, 2023 12:01 PM  
**To:** Todd Wells  
**Cc:** Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD  
**Subject:** FW: [EXTERNAL] EOG - Diamond 31 Fed Com Facility

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Todd

Your request for a 60-day extension is approved to March 3, 2023 to submit a closure report. Please include a copy of this and all notifications in the closure report to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Todd Wells <[Todd\\_Wells@eogresources.com](mailto:Todd_Wells@eogresources.com)>  
**Sent:** Tuesday, December 20, 2022 1:04 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Subject:** [EXTERNAL] EOG - Diamond 31 Fed Com Facility

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

This correspondence is to request a sixty day extension of time from the OCD for the crude oil release at the EOG, Diamond 31 Fed Com Facility, Incident # nAPP2227750429, location in Lea County, New Mexico. The areas that we can access with mechanical equipment have been excavated and remediated. The remaining outstanding areas require hand digging around the piping and equipment at the facility. The requested extension of time is to complete the remediation in the areas around the piping and equipment, write and submit the closure report. Please let us know if you have any questions regarding this site.

Thank you,

Todd Wells  
Environmental Specialist  
Midland Division



5509 Champions Drive  
Midland, TX 79706  
O: (432) 686-3613  
C: (432) 312-7736  
[Todd\\_Wells@eogresources.com](mailto:Todd_Wells@eogresources.com)

**Long, Brittany**

---

**From:** Long, Brittany  
**Sent:** Tuesday, January 3, 2023 3:37 PM  
**To:** Enviro, OCD, EMNRD  
**Subject:** EOG Diamond 31 Fed Com Facility nAPP2227750429 Confirmation Sampling Notification

To whom it may concern,

Tetra Tech is scheduled to collect 5 point confirmation, bottom hole and sidewall samples, for the EOG Resources Diamond 31 Fed Com Facility (nAPP2227750429) remediation starting on Thursday, January 5, 2023, at 2:37 PM. These samples will be placed within the remediaton and will continue each day as the remediation progresses. Please let me know if you have any questions or need any additional information.

Best Regards,

*Brittany D. Long,*

**Brittany D. Long | Biologist & Project Manager**  
Phone: 432.682.4559 | Mobile 432.741.5813 | Fax:432.682.3946  
[Brittany.Long@tetratech.com](mailto:Brittany.Long@tetratech.com)

**Tetra Tech | *Leading with Science*®**  
901 West Wall Street, Suite 100 Midland, Texas 79701

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**District I**

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

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 195847

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 195847
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note going forward, delineation samples should be depth discrete samples from one location and never be collected as composite samples.	3/20/2023