

Incident ID	NDHR1913360865
District RP	1RP-5483
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Todd Wells Title: Environmental Specialist
Signature: Todd Wells Date: 8/23/21
email: Todd_Wells@eogresources.com Telephone: 432-686-3613

OCD Only

Received by: Chad Hensley Date: 09/23/2021

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

Signature: Chad Hensley Date: 09/23/2021

Report Type: Work Plan 1RP-5483/NDHR1913360865

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:	32.181103			-103.516523		
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:

Date Released:	3/12/2019
Type Release:	Oil & Produced Water
Source of Contamination:	Failed Gasket
Fluid Released:	37 bbl oil & 24 bbl water
Fluids Recovered:	36 bbl oil & 24 bbl water

Official Communication:

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

Site Characterization

Depth to Groundwater:	<50' below surface
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Recommended Remedial Action Levels (RRALs)

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

**TETRA TECH**

August 23, 2021

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

**Re: Work Plan for the EOG Resources, Diamond 31 Fed Com #2H, Unit D,
Section 31, Township 24 South, Range 34 East, Lea County, New Mexico.
1RP-5483
NDHR1913360865**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the Diamond 31 Fed Com #2H, Unit D, Section 31, Township 24 South, Range 34 East, Lea County, New Mexico (Site). The site coordinates are 32.181103°, -103.516523°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report the release was discovered on March 12, 2019 and released approximately 37 barrels of oil and 24 barrels of produced water due to a failed gasket on the heater treater. A vacuum truck was dispatched to remove all freestanding fluids, recovering approximately 36 barrels of oil and 24 barrels of produced water. The release impacted an area inside the bermed facility measuring approximately 30' x 113' and migrated into the adjacent pasture impacting areas measuring approximately 50' x 64' and 46' x 156'. The initial C-141 Forms are included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 24, Township 24 South, Range 33 East, approximately 0.65 miles north of the site, and has a reported depth to groundwater of 18 feet below ground surface.

Regulatory

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com

**TETRA TECH**

A risk-based evaluation was performed for the Site in accordance with 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 for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Soil Assessment and Analytical Results

On May 17, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. Five (5) auger holes (AH-1 through AH-5) were installed in the release area to total depths ranging from 0-1' to 2.0' below surface. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples collected showed benzene concentrations above RRALs. None of the samples showed chloride concentrations above the RRALs, with the exception of AH-1, with a chloride concentration of 702 mg/kg, at a depth of 0-1.0' below surface. However, auger holes (AH-1 through AH-3), reported BTEX concentrations above RRALs, with concentrations ranging from 58.7 mg/kg to 442 mg/kg, at depths ranging from surface to 1.5' below surface. The areas of auger holes (AH-1 through AH-5), reported TPH concentrations above RRALs, with concentrations ranging from 111 mg/kg to 30,100 mg/kg, at depths ranging from surface to 2.0' below surface. However, vertical delineation was not found in any of the auger holes.

Remediation Activities

Based on the results of the soil assessment, Tetra Tech personnel were onsite between June 27th and July 3rd to supervise the remediation activities. The impacted areas were excavated to total depths ranging from 6"-1.0 and 5.0' below surface. Confirmation bottom hole and sidewall samples were collected every 200 square feet. A total of fifty-three (53) bottom hole samples (Bottom Hole 1 through Bottom Hole 53) and fourteen (14) sidewall samples (NSW-1 through NSW-3, SSW-1 through SSW-3, ESW-1 through ESW-4, and WSW-1 through WSW-4) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 1. The excavation depths and sample locations are shown in Figure 4.

The areas of Bottom Hole 50, Bottom Hole 51, Bottom Hole 52, and Bottom Hole 53, which were hand dug to remove the shallow impacted soils, showed TPH concentrations of 2,550 mg/kg, 5,200 mg/kg, 4,820 mg/kg, and 3,510 mg/kg, respectively. Due to numerous above ground and buried lines in the area, as well as the proximity to existing production equipment, further excavation of these areas could not be safely performed at the time. Deeper samples could not



be collected via hand auger due to a dense formation in the area. Additionally, a backhoe was unable to access the areas to aid in the collection of deeper samples for vertical delineation.

All of the remaining confirmation samples showed benzene and total BTEX below the laboratory reporting limit. Additionally, all confirmation samples showed chloride and TPH concentrations below the RRALs.

Approximately 1,200 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Work Plan

Based on the previous laboratory results, EOG will further sample the remaining impact to attempt to find delineation and collect current data. EOG will attempt to remediate the remaining impact located in the berm and around the equipment (BH-50 through BH-53), by attempting remediation of the release to the most stringent thresholds. EOG will remediate the release to the maximum extent practical that does not cause pipeline, equipment, or safety concerns, or cause major facility deconstruction. Once remediation activities are complete, bottom hole and sidewall confirmation samples will be collected every 200 square feet to ensure concentrations are reported below the determined RRALs. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment for this site, please call 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'.

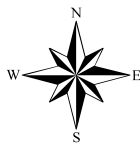
Clair Gonzales, P.G.
Senior Project Manager

cc: James Kennedy – EOG
Todd Wells - EOG

Figures



● SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

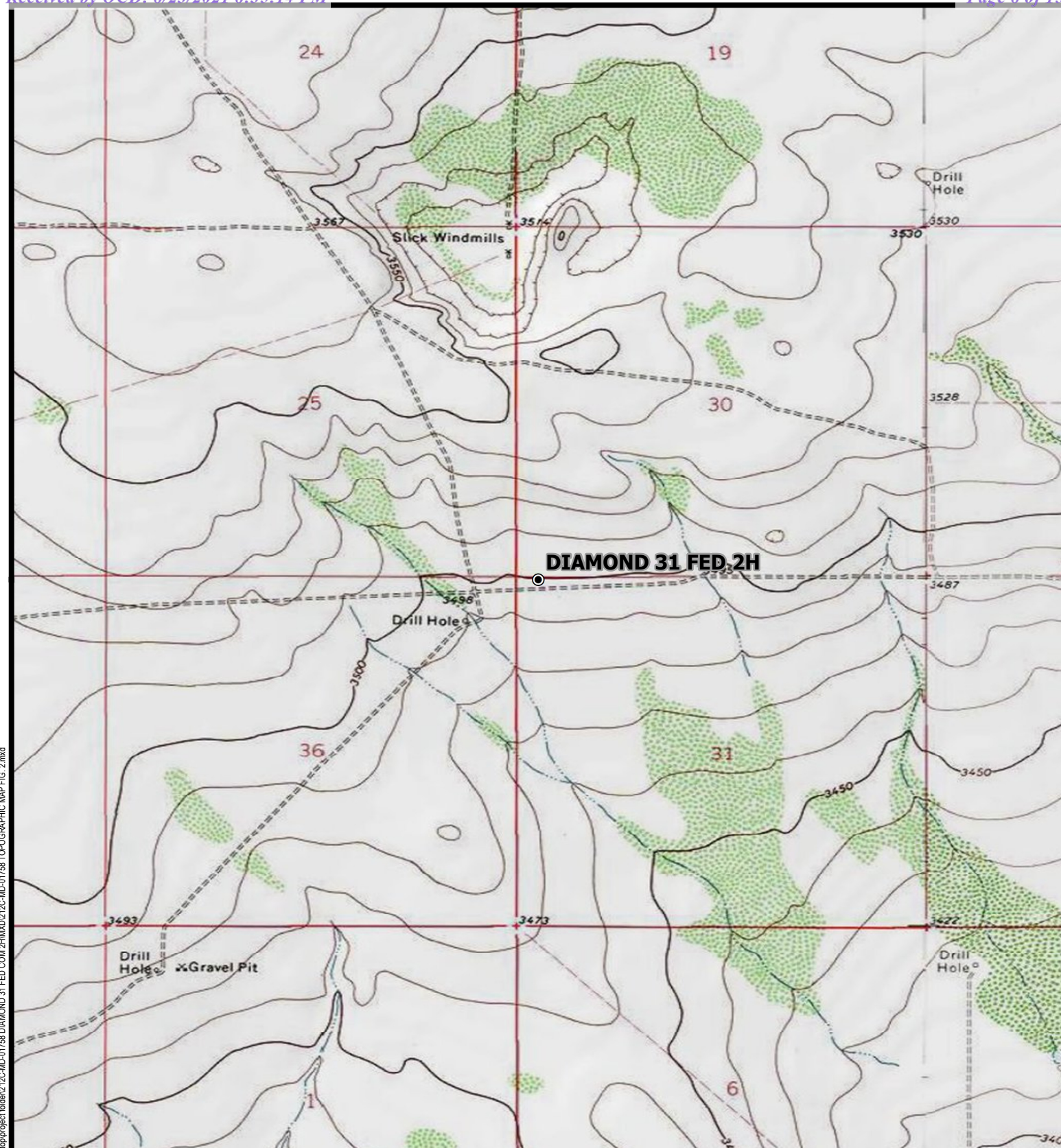
Sources: Esri, HERE,
Garmin, USGS, Intermap,



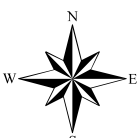
OVERALL SITE MAP
DIAMOND 31 FEDERAL 2H
PROPERTY LOCATED AT 32.181103°,-103.516523°
LEA COUNTY, NEW MEXICO



FIGURE
1



● SITE LOCATION

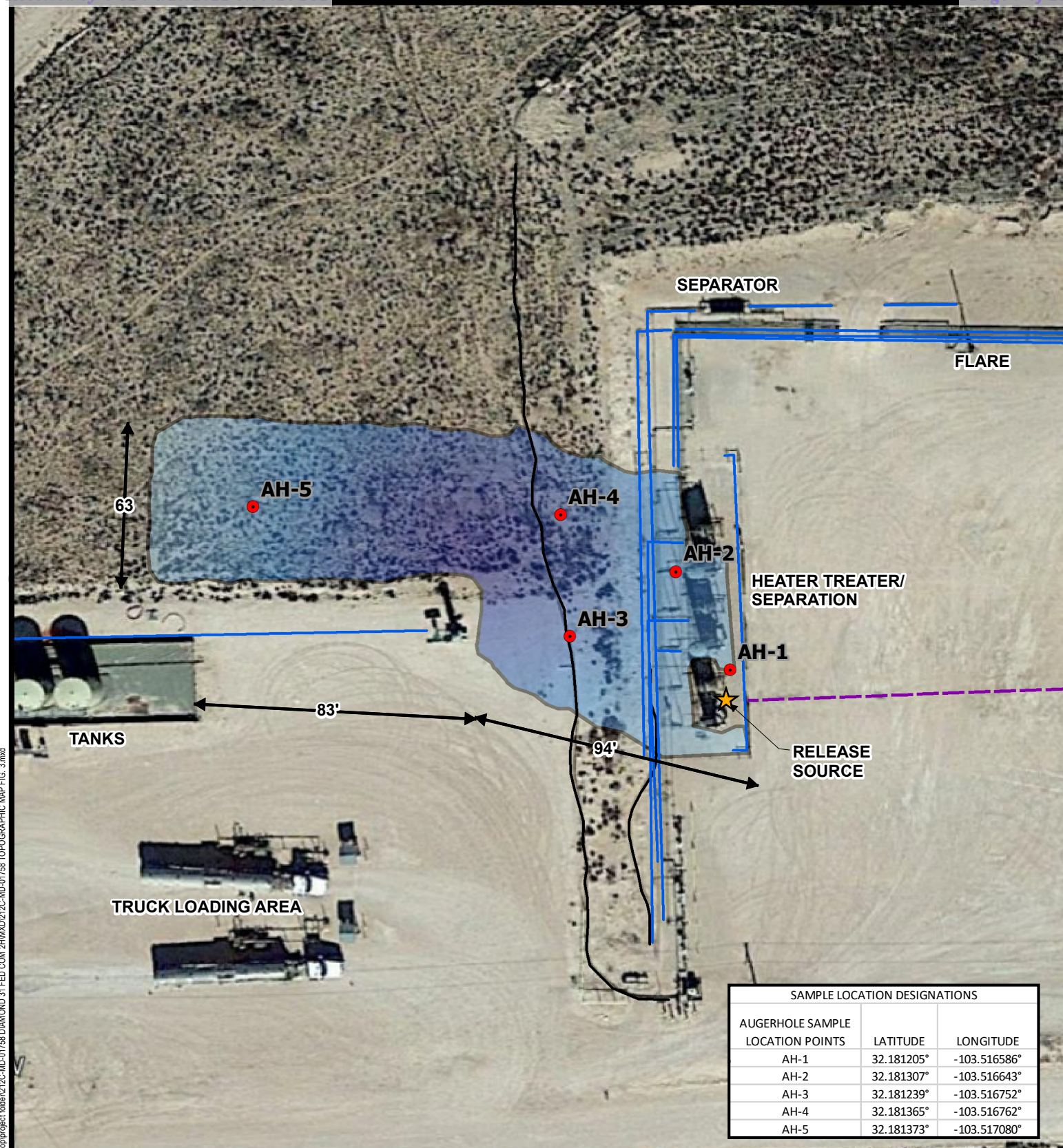


0 1,000 2,000
Approximate Scale in Feet

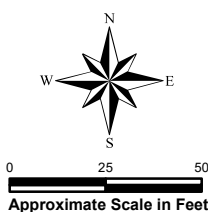
TOPOGRAPHIC MAP
DIAMOND 31 FEDERAL 2H
PROPERTY LOCATED AT 32.181103°,-103.516523°
LEA COUNTY, NEW MEXICO



FIGURE
2



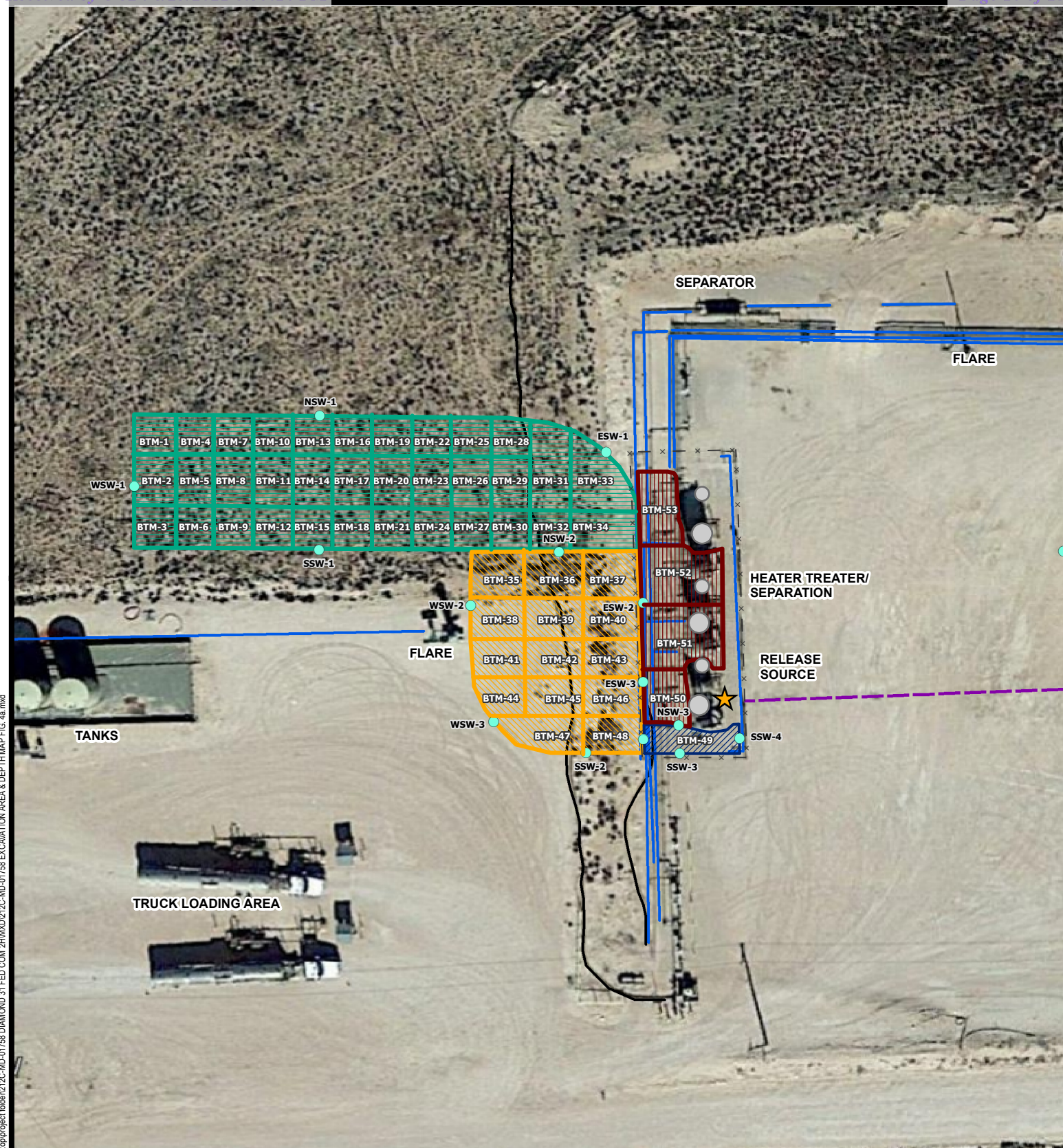
- AUGERHOLE SAMPLE LOCATIONS
- BURIED PIPE
- ABOVEGROUND POLYPIPE/FLOWLINE
- PROCESS PIPE
- AFFECTED SPILL AREA



SPILL ASSESSMENT MAP
DIAMOND 31 FEDERAL 2H
PROPERTY LOCATED AT 32.181103°,-103.516523°
LEA COUNTY, NEW MEXICO

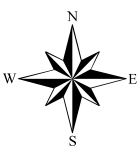


FIGURE
3



BTM BOTTOM HOLE SAMPLE LOCATIONS

- SIDEWALL DESIGNATIONS
- × FENCE
- BURIED PIPE
- ABOVEGROUND POLYPIPE/FLOWLINE
- PROCESS PIPE
- 0.6'-1' EXCAVATED DEPTH AREA
- 2' EXCAVATED DEPTH AREA
- 4' EXCAVATED DEPTH AREA
- 5' EXCAVATED DEPTH AREA



0 25 50
Approximate Scale in Feet

SOURCE: GOOGLE 2-2017

EXCAVATION AREA & DEPTH MAP
DIAMOND 31 FEDERAL 2H
PROPERTY LOCATED AT 32.181103°, -103.516523°
LEA COUNTY, NEW MEXICO



FIGURE
4

Tables

Table 1
EOG
Diamond 31 Fed Com 2H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample 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						
AH-1	5/17/2019	0-1	-	X		1,740	6,630	926	9,300	0.885	14.4	9.66	33.8	58.7	702
	"	1-1.5	-	X		295	1480	129	1,900	0.00353	0.122	0.144	0.629	0.899	213
	"	1.5-2	-	X		334	3,660	304	4,300	<0.00200	0.0214	0.0359	0.331	0.388	293
AH-2	5/17/2019	0-1	-	X		2,590	13,600	1,830	18,000	0.584	14.7	12.7	40.7	68.7	134
AH-3	5/17/2019	0-1	-	X		6,780	20,800	2,490	30,100	5.32	98.2	77.1	233	414	136
	"	1-1.5	-	X		6,520	10,300	1,130	18,000	7.71	134	71.9	228	442	7.36
AH-4	5/17/2019	0-1	-	X		<15.0	822	98.3	920	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	36.8
	"	1-1.5	-	X		<15.0	348	45.1	393	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<5.00
	"	1.5-2	-	X		<15.0	1,020	134	1,150	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	5.18
AH-5	5/17/2019	0-1	-	X		<15.0	95.5	15.2	111	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<4.99
	"	1-1.5	-	X		<15.0	392	91.2	483	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<5.01
Bottom Hole 1	6/27/2019	-	2.0	X		<10.0	10.6	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 2	6/27/2019	-	2.0	X		<10.0	14.2	<10.0	14.2	<0.050	0.055	<0.050	<0.150	<0.300	<16.0
Bottom Hole 3	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 4	6/27/2019	-	2.0	X		<10.0	34.9	11.5	46.4	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 5	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 6	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 7	6/27/2019	-	2.0	X		<10.0	17.6	<10.0	17.6	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 8	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	0.054	<0.050	<0.150	0.054	48.0
Bottom Hole 9	6/27/2019	-	2.0	X		<10.0	18.3	<10.0	18.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 10	6/27/2019	-	2.0	X		<10.0	54.1	18.7	72.8	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

Table 1
EOG
Diamond 31 Fed Com 2H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample 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						
Bottom Hole 11	6/27/2019	-	2.0	X		<10.0	12.8	<10.0	12.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 12	6/27/2019	-	2.0	X		<10.0	30.7	23.8	54.5	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Bottom Hole 13	6/27/2019	-	2.0	X		<10.0	13.9	<10.0	13.9	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 14	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 15	6/27/2019	-	2.0	X		<10.0	19.9	<10.0	19.9	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 16	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	0.059	<0.050	<0.150	0.059	32.0
Bottom Hole 17	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom Hole 18	6/27/2019	-	2.0	X		<10.0	30.4	<10.0	30.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 19	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 20	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 21	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 22	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 23	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 24	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 25	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 26	6/27/2019	-	2.0	X		<10.0	18.2	<10.0	18.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 27	6/27/2019	-	2.0	X		<10.0	44.7	17.2	61.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 28	6/27/2019	-	2.0	X		<10.0	22.0	<10.0	22.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 29	6/27/2019	-	2.0	X		<10.0	10.7	<10.0	10.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 30	6/27/2019	-	2.0	X		<10.0	41.4	<10.0	41.4	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 31	6/27/2019	-	2.0	X		<10.0	14.2	<10.0	14.2	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Bottom Hole 32	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 33	6/27/2019	-	2.0	X		<10.0	25.8	<10.0	25.8	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Bottom Hole 34	6/27/2019	-	2.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom Hole 35	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole 36	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
Bottom Hole 37	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole 38	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
Bottom Hole 39	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160

Table 1
EOG
Diamond 31 Fed Com 2H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample 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						
Bottom Hole 40	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Bottom Hole 41	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
Bottom Hole 42	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole 43	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Bottom Hole 44	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
Bottom Hole 45	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Bottom Hole 46	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Bottom Hole 47	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Bottom Hole 48	7/3/2019	-	5.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Bottom Hole 49	7/3/2019	-	4.0	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole 50	7/9/2019	-	1.0	X		375	2060	116	2550	0.00455	0.08200	0.04670	0.301	0.434	213
Bottom Hole 51	7/9/2019	-	1.0	X		292	4620	290	5200	0.00282	0.00854	0.0128	0.0351	0.0593	289
Bottom Hole 52	7/9/2019	-	1.0	X		1510	3160	153	4820	1.10	4.21	1.99	7.93	15.2	40.9
Bottom Hole 53	7/9/2019	-	1.0	X		763	2620	125	3510	0.108	0.637	0.466	9.8	11.0	573
NSW-1	6/27/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
NSW-2	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
NSW-3	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SSW-1	6/27/2019	-	-	X		<10.0	43.9	21.9	65.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SSW-2	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SSW-3	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
ESW-1	6/27/2019	-	-	X		<10.0	31.0	<10.0	31.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW-2	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
ESW-3	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
ESW-4	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
WSW-1	6/27/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
WSW-2	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
WSW-3	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
WSW-4	7/3/2019	-	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112

Photos

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



TETRA TECH



View Southeast – Excavation Area



View East – 2.0' Excavation Area

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



View South – 5.0' Excavation Area



View North – Hand Dug Excavation Area Inside Berm

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



TETRA TECH



View North – 4.0' Excavation Area

Appendix A

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	NDHR1913360865
District RP	IRP-5483
Facility ID	
Application ID	pDHR1913360141

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) NDHR1913360865
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.181103° Longitude -103.516523°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Diamond 31 Fed Com #2H Facility	Site Type EOG Facility
Date Release Discovered 3/12/19	API# (if applicable) 30-025-40484

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: Bureau of Land Management, BLM)

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) 37	Volume Recovered (bbls) 36
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 24	Volume Recovered (bbls) 24
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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 gasket on the heater treater failed causing a mist of oil and water to spray off location. Approximately 61 bbls of oil and water was released and 60 bbls recovered.

Incident ID	NDHR1913360865
District RP	1RP-5483
Facility ID	
Application ID	pDHR1913360141

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release volume more than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No	

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>5-1-19</u>
email: <u>Todd_Wells@eogresources.com</u>	Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u>	
Received by: <u>Dylan Rose-Coss</u>	Date: <u>05/13/2019</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
West Artesia Grayburg Unit #18
Eddy County, New Mexico

23 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

23 South			34 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

23 South			35 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			33 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			34 East		
6	81	4	475	3	2
7	8	9	10	11	40
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	233

24 South			35 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	97	21	22	23
30	29	28	27	26	25
31	32	33	34	35	36

25 South			33 East		
6	5	4	3	172	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			34 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	50	28	27	26
31	32	128	33	34	35

25 South			35 East		
6	5	4	3	108	2
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location



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

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

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

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°11'27", Longitude 103°31'04" NAD27

Land-surface elevation 3,538 feet above NAVD88

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

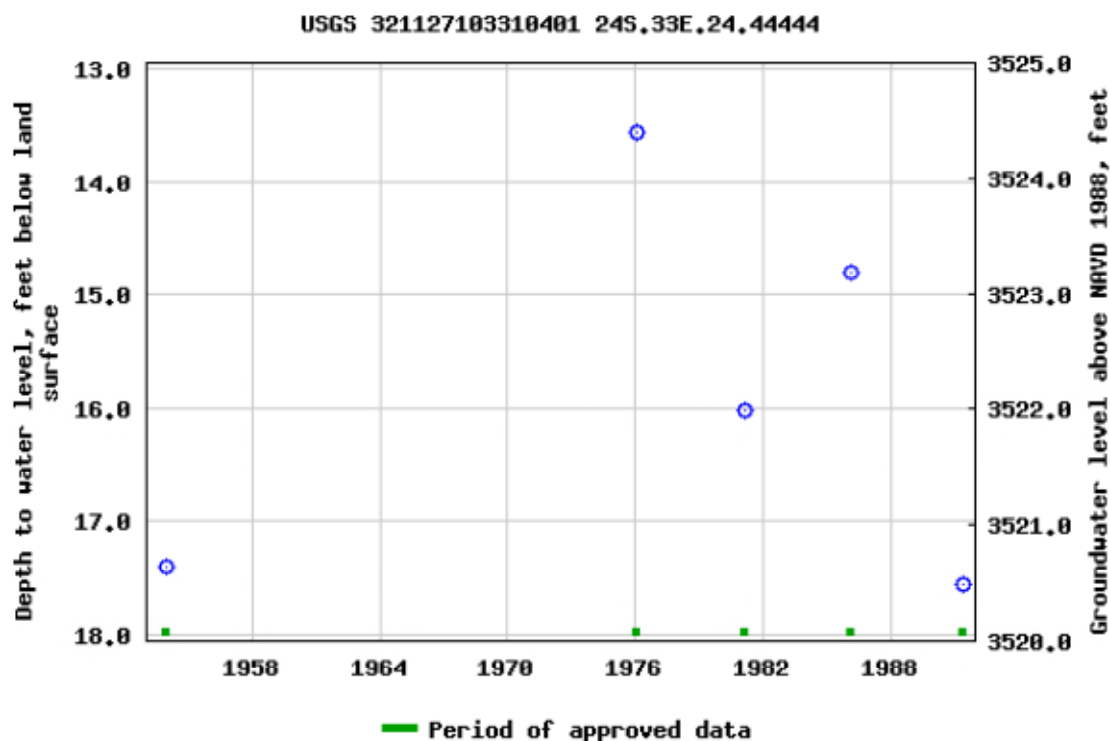
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-07-22 11:42:54 EDT

1.09 0.9 nadww01

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 02373		CUB	LE	4	1	32	24S	34E		641979	3560916*	<input type="text"/>	600	
C 02386		CUB	LE	4	1	2	04	24S	34E	643962	3569290*	<input type="text"/>	575	475 100
C 02387		CUB	LE			1	11	24S	34E	646513	3567613*	<input type="text"/>	62	40 22
C 02397		CUB	LE	4	1	2	04	24S	34E	643962	3569290*	<input type="text"/>	575	475 100
C 03932 POD13		CUB	LE	4	2	3	15	24S	34E	645314	3565203	<input type="text"/>	90	
C 03932 POD3		CUB	LE	4	3	2	05	24S	34E	642442	3568787	<input type="text"/>	100	
C 03932 POD8		CUB	LE	4	2	4	07	24S	34E	641120	3566769	<input type="text"/>	72	
C 03943 POD1		CUB	LE	2	4	2	21	24S	34E	644523	3564266	<input type="text"/>	610	431 179
C 04014 POD1		CUB	LE	1	1	3	06	24S	34E	639811	3568638	<input type="text"/>	91	81 10

Average Depth to Water: **300 feet**

Minimum Depth: **40 feet**

Maximum Depth: **475 feet**

Record Count: 9

PLSS Search:

Township: 24S **Range:** 34E

*UTM location was derived from PLSS - see Help

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

5/17/19 1:06 PM

WATER COLUMN/ AVERAGE DEPTH
TO WATER

**National Water Information System: Mapper**

Sites	Map
Search	
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"/>	
Surface-Water Sites	
Groundwater Sites	
Springs	
Atmospheric Sites	
Other Sites	

0 0.5 1.0 miles
-103.556, 32.263
USDA FSA, DigitalGlobe, Inc.

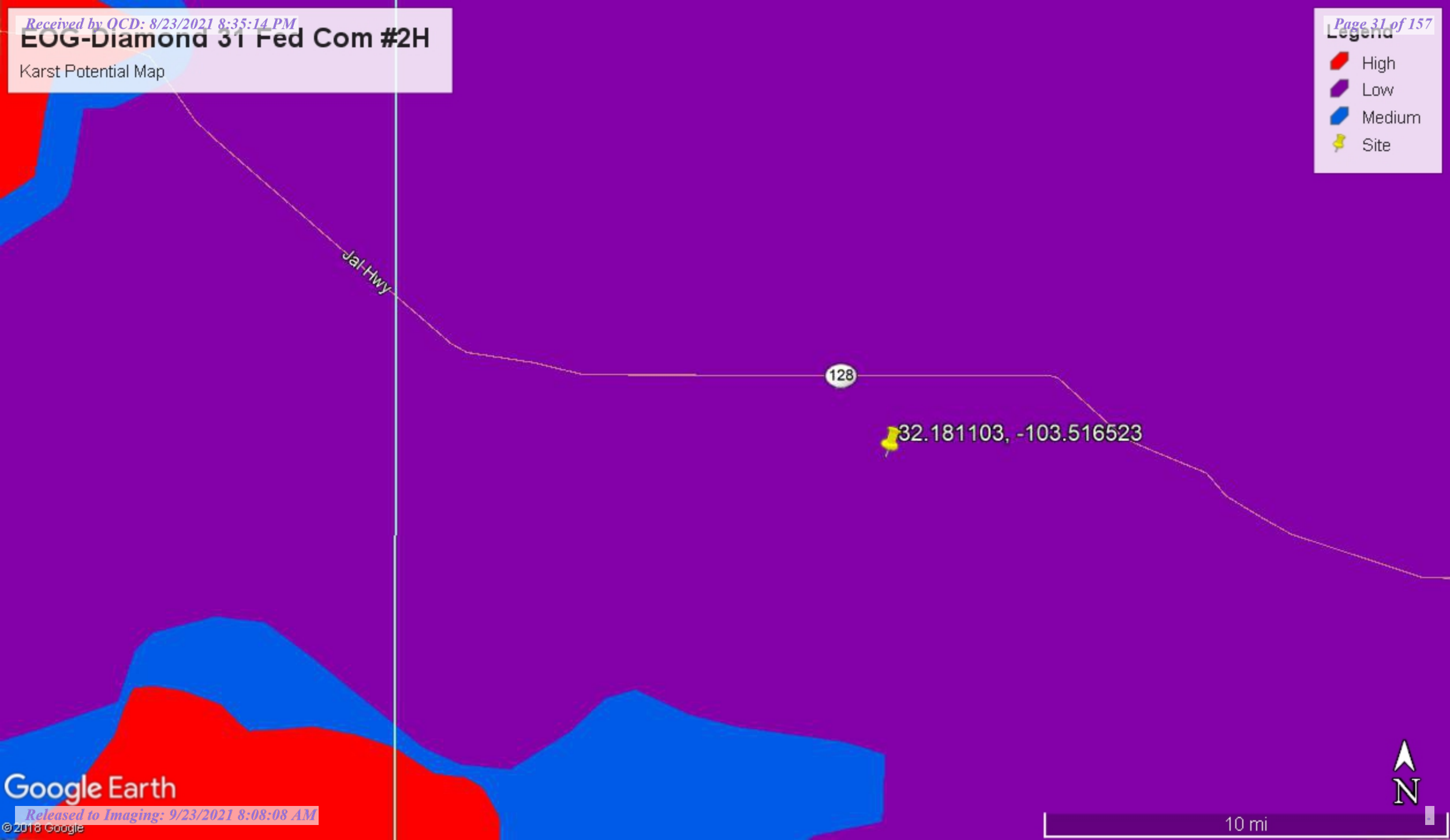
Site Information

EOG-Diamond 31 Fed Com #2H

Karst Potential Map

Legend

- High
- Low
- Medium
- Site



Google Earth



10 mi



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

Appendix C

Analytical Report 624787

for
Tetra Tech- Midland

Project Manager: Mike Carmona

EOG Diamond 31 Fed Com 2H

212C-MD-01758

28-MAY-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483)



28-MAY-19

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **624787**

EOG Diamond 31 Fed Com 2H

Project Address: Lea Co, NM

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 624787. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 624787 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 624787

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH#1 (0-1')	S	05-17-19 00:00		624787-001
AH#1 (1-1.5')	S	05-17-19 00:00		624787-002
AH#1 (1.5-2')	S	05-17-19 00:00		624787-003
AH#2 (0-1')	S	05-17-19 00:00		624787-004
AH#3 (0-1')	S	05-17-19 00:00		624787-005
AH#4 (0-1')	S	05-17-19 00:00		624787-006
AH#4 (1-1.5')	S	05-17-19 00:00		624787-007
AH#4 (1.5-2')	S	05-17-19 00:00		624787-008
AH#5 (0-1')	S	05-17-19 00:00		624787-009
AH#5 (1-1.5')	S	05-17-19 00:00		624787-010
AH#3 (1-1.5')	S	05-17-19 00:00		624787-011

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: EOG Diamond 31 Fed Com 2H**

Project ID: 212C-MD-01758
Work Order Number(s): 624787

Report Date: 28-MAY-19
Date Received: 05/20/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3089914 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 624787-002,624787-003,624787-011,624787-004,624787-005,624787-001.

Batch: LBA-3090325 TPH by SW8015 Mod

Lab Sample ID 624787-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).

Diesel Range Organics (DRO) recovered below QC limits in the Matrix Spike and Matrix Spike

Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 624787-001, -002, -003, -004, -005, -006, -007, -008, -009.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 624787

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H



Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Mon May-20-19 07:26 am
Report Date: 28-MAY-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	624787-001	624787-002	624787-003	624787-004	624787-005	624787-006
	<i>Field Id:</i>	AH#1 (0-1')	AH#1 (1-1.5')	AH#1 (1.5-2')	AH#2 (0-1')	AH#3 (0-1')	AH#4 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30
	<i>Analyzed:</i>	May-23-19 02:46	May-22-19 23:19	May-22-19 23:38	May-23-19 03:05	May-23-19 09:42	May-23-19 00:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		0.885 0.100	0.00353 0.00199	<0.00200 0.00200	0.584 0.0996	5.32 2.01	<0.00200 0.00200
Toluene		14.4 0.100	0.122 0.00199	0.0214 0.00200	14.7 0.0996	98.2 2.01	<0.00200 0.00200
Ethylbenzene		9.66 0.100	0.144 0.00199	0.0359 0.00200	12.7 0.0996	77.1 2.01	<0.00200 0.00200
m,p-Xylenes		23.6 0.201	0.372 0.00398	0.130 0.00401	29.4 0.199	168 4.02	<0.00400 0.00400
o-Xylene		10.2 0.100	0.257 0.00199	0.201 0.00200	11.3 0.0996	65.3 2.01	<0.00200 0.00200
Total Xylenes		33.8 0.100	0.629 0.00199	0.331 0.00200	40.7 0.0996	233 2.01	<0.00200 0.00200
Total BTEX		58.7 0.100	0.899 0.00199	0.388 0.00200	68.7 0.0996	414 2.01	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	May-20-19 12:00	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30
	<i>Analyzed:</i>	May-20-19 19:06	May-20-19 12:54	May-20-19 13:15	May-20-19 13:33	May-20-19 13:38	May-20-19 13:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		702 4.98	213 4.97	293 5.03	134 4.95	136 24.8	36.8 5.04
TPH by SW8015 Mod	<i>Extracted:</i>	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00
	<i>Analyzed:</i>	May-25-19 11:53	May-25-19 04:20	May-25-19 05:19	May-25-19 12:12	May-25-19 12:32	May-25-19 06:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		1740 74.7	295 15.0	334 15.0	2590 74.9	6780 150	<15.0 15.0
Diesel Range Organics (DRO)		6630 74.7	1480 15.0	3660 15.0	13600 74.9	20800 150	822 15.0
Motor Oil Range Hydrocarbons (MRO)		926 74.7	129 15.0	304 15.0	1830 74.9	2490 150	98.3 15.0
Total TPH		9300 74.7	1900 15.0	4300 15.0	18000 74.9	30100 150	920 15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 624787

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H



Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea Co, NM

Date Received in Lab: Mon May-20-19 07:26 am
Report Date: 28-MAY-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	624787-007	624787-008	624787-009	624787-010	624787-011	
	<i>Field Id:</i>	AH#4 (1-1.5')	AH#4 (1.5-2')	AH#5 (0-1')	AH#5 (1-1.5')	AH#3 (1-1.5')	
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	May-17-19 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	May-22-19 10:30	
	<i>Analyzed:</i>	May-23-19 01:11	May-23-19 01:30	May-23-19 01:49	May-23-19 02:08	May-23-19 22:01	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	7.71 2.01	
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	134 2.01	
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	71.9 2.01	
m,p-Xylenes		<0.00403 0.00403	<0.00399 0.00399	<0.00402 0.00402	<0.00398 0.00398	168 4.02	
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	60.0 2.01	
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	228 2.01	
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00201 0.00201	<0.00199 0.00199	442 2.01	
Chloride by EPA 300	<i>Extracted:</i>	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	May-20-19 12:30	
	<i>Analyzed:</i>	May-20-19 13:59	May-20-19 14:04	May-20-19 14:09	May-20-19 14:14	May-20-19 14:19	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		<5.00 5.00	5.18 5.01	<4.99 4.99	<5.01 5.01	7.36 5.04	
TPH by SW8015 Mod	<i>Extracted:</i>	May-24-19 17:00	May-24-19 17:00	May-24-19 17:00	May-23-19 10:00	May-23-19 10:00	
	<i>Analyzed:</i>	May-25-19 06:37	May-25-19 06:57	May-25-19 07:16	May-23-19 22:20	May-24-19 07:02	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0	<15.0 15.0	<15.0 15.0	<15.0 15.0	6520 74.8	
Diesel Range Organics (DRO)		348 15.0	1020 15.0	95.5 15.0	392 15.0	10300 74.8	
Motor Oil Range Hydrocarbons (MRO)		45.1 15.0	134 15.0	15.2 15.0	91.2 15.0	1130 74.8	
Total TPH		393 15.0	1150 15.0	111 15.0	483 15.0	18000 74.8	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer

Jessica Kramer
Project Assistant



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 23:19

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0298	0.0300	99	70-130	
4-Bromofluorobenzene	0.0479	0.0300	160	70-130	**

Lab Batch #: 3089914

Sample: 624787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 23:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	70-130	
4-Bromofluorobenzene	0.0455	0.0300	152	70-130	**

Lab Batch #: 3089914

Sample: 624787-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 00:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0304	0.0300	101	70-130	
4-Bromofluorobenzene	0.0289	0.0300	96	70-130	

Lab Batch #: 3089914

Sample: 624787-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0292	0.0300	97	70-130	

Lab Batch #: 3089914

Sample: 624787-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:30

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	70-130	
4-Bromofluorobenzene	0.0296	0.0300	99	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 01:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

Lab Batch #: 3089914

Sample: 624787-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 02:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	70-130	
4-Bromofluorobenzene	0.0299	0.0300	100	70-130	

Lab Batch #: 3089914

Sample: 624787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 02:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0578	0.0300	193	70-130	**

Lab Batch #: 3089914

Sample: 624787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 03:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0560	0.0300	187	70-130	**

Lab Batch #: 3089914

Sample: 624787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 09:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0412	0.0300	137	70-130	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 624787-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 22:01

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0403	0.0300	134	70-130	**

Lab Batch #: 3090162

Sample: 624787-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 22:20

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	98.7	100	99	70-135	
o-Terphenyl	55.9	50.0	112	70-135	

Lab Batch #: 3090162

Sample: 624787-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/24/19 07:02

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	62.7	49.9	126	70-135	

Lab Batch #: 3090325

Sample: 624787-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:20

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	106	99.7	106	70-135	
o-Terphenyl	50.7	49.9	102	70-135	

Lab Batch #: 3090325

Sample: 624787-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 05:19

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	192	200	96	70-135	
o-Terphenyl	110	99.9	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 624787-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	99.7	111	70-135	
o-Terphenyl	63.7	49.9	128	70-135	

Lab Batch #: 3090325

Sample: 624787-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:37

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	52.1	50.0	104	70-135	

Lab Batch #: 3090325

Sample: 624787-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 06:57

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.4	99.8	99	70-135	
o-Terphenyl	60.3	49.9	121	70-135	

Lab Batch #: 3090325

Sample: 624787-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 07:16

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.8	129	70-135	
o-Terphenyl	64.6	49.9	129	70-135	

Lab Batch #: 3090325

Sample: 624787-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 11:53

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.7	99.6	96	70-135	
o-Terphenyl	54.8	49.8	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 624787-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 12:12

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	99.9	90	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 3090325

Sample: 624787-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 12:32

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	119	99.9	119	70-135	
o-Terphenyl	37.7	50.0	75	70-135	

Lab Batch #: 3089914

Sample: 7678402-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 20:28

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	70-130	
4-Bromofluorobenzene	0.0243	0.0300	81	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 12:58

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.6	100	90	70-135	
o-Terphenyl	44.7	50.0	89	70-135	

Lab Batch #: 3090325

Sample: 7678655-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:02

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.4	100	95	70-135	
o-Terphenyl	47.4	50.0	95	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3089914

Sample: 7678402-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 18:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0308	0.0300	103	70-130	
4-Bromofluorobenzene	0.0283	0.0300	94	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 13:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	45.1	50.0	90	70-135	

Lab Batch #: 3090325

Sample: 7678655-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:21

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	47.9	50.0	96	70-135	

Lab Batch #: 3089914

Sample: 7678402-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/22/19 19:13

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0318	0.0300	106	70-130	
4-Bromofluorobenzene	0.0315	0.0300	105	70-130	

Lab Batch #: 3090162

Sample: 7678550-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/23/19 13:38

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	45.9	50.0	92	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090325

Sample: 7678655-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 05/25/19 03:41

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	48.6	50.0	97	70-135	

Lab Batch #: 3089914

Sample: 624786-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 19:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	70-130	
4-Bromofluorobenzene	0.0308	0.0300	103	70-130	

Lab Batch #: 3090162

Sample: 624937-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 14:18

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	108	99.9	108	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

Lab Batch #: 3090325

Sample: 624787-002 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:39

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	99.7	116	70-135	
o-Terphenyl	53.5	49.9	107	70-135	

Lab Batch #: 3089914

Sample: 624786-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/22/19 19:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	70-130	
4-Bromofluorobenzene	0.0305	0.0300	102	70-130	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: EOG Diamond 31 Fed Com 2H

Work Orders : 624787,

Project ID: 212C-MD-01758

Lab Batch #: 3090162

Sample: 624937-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/23/19 14:38

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	107	99.9	107	70-135	
o-Terphenyl	46.2	50.0	92	70-135	

Lab Batch #: 3090325

Sample: 624787-002 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 05/25/19 04:59

SURROGATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	123	99.8	123	70-135	
o-Terphenyl	56.6	49.9	113	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Analyst: SCM

Date Prepared: 05/22/2019

Date Analyzed: 05/22/2019

Lab Batch ID: 3089914

Sample: 7678402-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000384	0.0998	0.0937	94	0.100	0.112	112	18	70-130	35	
Toluene	<0.000455	0.0998	0.0911	91	0.100	0.107	107	16	70-130	35	
Ethylbenzene	<0.000564	0.0998	0.0937	94	0.100	0.110	110	16	70-130	35	
m,p-Xylenes	<0.00101	0.200	0.193	97	0.200	0.226	113	16	70-130	35	
o-Xylene	<0.000344	0.0998	0.0952	95	0.100	0.114	114	18	70-130	35	

Analyst: SPC

Date Prepared: 05/20/2019

Date Analyzed: 05/20/2019

Lab Batch ID: 3089549

Sample: 7678188-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<5.00	250	261	104	250	263	105	1	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Analyst: CHE

Date Prepared: 05/20/2019

Date Analyzed: 05/20/2019

Lab Batch ID: 3089621

Sample: 7678199-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	1.47	250	242	97	250	242	97	0	90-110	20	

Analyst: ARM

Date Prepared: 05/23/2019

Date Analyzed: 05/23/2019

Lab Batch ID: 3090162

Sample: 7678550-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1040	104	1000	1020	102	2	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	995	100	1000	985	99	1	70-135	20	

Analyst: ARM

Date Prepared: 05/24/2019

Date Analyzed: 05/25/2019

Lab Batch ID: 3090325

Sample: 7678655-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1080	108	1000	1060	106	2	70-135	20	
Diesel Range Organics (DRO)	<8.13	1000	1020	102	1000	998	100	2	70-135	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100 * (C)/[B]$ Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3089914

QC- Sample ID: 624786-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/22/2019

Date Prepared: 05/22/2019

Analyst: SCM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.000528	0.0994	0.0885	89	0.100	0.0984	98	11	70-130	35	
Toluene	0.000528	0.0994	0.0850	85	0.100	0.0942	94	10	70-130	35	
Ethylbenzene	<0.000561	0.0994	0.0851	86	0.100	0.0950	95	11	70-130	35	
m,p-Xylenes	<0.00101	0.199	0.175	88	0.201	0.194	97	10	70-130	35	
o-Xylene	0.000528	0.0994	0.0863	86	0.100	0.0968	96	11	70-130	35	

Lab Batch ID: 3089549

QC- Sample ID: 624787-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	213	249	464	101	249	463	100	0	90-110	20	

Lab Batch ID: 3089549

QC- Sample ID: 624787-011 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	7.36	252	272	105	252	273	105	0	90-110	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3089621

QC- Sample ID: 624761-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	134	251	369	94	251	366	92	1	90-110	20	

Lab Batch ID: 3089621

QC- Sample ID: 624761-006 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/20/2019

Date Prepared: 05/20/2019

Analyst: CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1180	249	1370	76	249	1380	80	1	90-110	20	X

Lab Batch ID: 3090162

QC- Sample ID: 624937-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/23/2019

Date Prepared: 05/23/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	10.4	999	1080	107	999	1100	109	2	70-135	20	
Diesel Range Organics (DRO)	57.3	999	1020	96	999	1030	97	1	70-135	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
 Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: EOG Diamond 31 Fed Com 2H

Work Order #: 624787

Project ID: 212C-MD-01758

Lab Batch ID: 3090325

QC- Sample ID: 624787-002 S

Batch #: 1 Matrix: Soil

Date Analyzed: 05/25/2019

Date Prepared: 05/24/2019

Analyst: ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	295	997	1330	104	998	1350	106	1	70-135	20	
Diesel Range Organics (DRO)	1480	997	1960	48	998	2000	52	2	70-135	20	X

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
 Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Diamond 31 Fed Com 2H		Project #: 212C-MD-01758	
Project Location: Lea Co, NM		Project #: 212C-MD-01758	
Invoice to: EOG - James Kennedy		Sampler Signature: Conner Moehring	
Receiving Laboratory: Xenco		Comments:	

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 ₃	ICE	None					
										YEAR: 2019				
AH #1 (0-1')		5/17/2019		X				X				1 N	X	BTEX 8201B BTEX 8260B
AH #1 (1-1.5')		5/17/2019		X				X				1 N	X	TPH TX1005 (Ext to C35)
AH #1 (1.5-2')		5/17/2019		X				X				1 N	X	TPH 8015M (GRO - DRO - ORO - MRO)
AH #2 (0-1')		5/17/2019		X				X				1 N	X	PAH 8270C
AH #3 (0-1')		5/17/2019		X				X				1 N	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
AH #4 (0-1')		5/17/2019		X				X				1 N	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
AH #4 (1-1.5')		5/17/2019		X				X				1 N	X	TCLP Volatiles
AH #4 (1.5-2')		5/17/2019		X				X				1 N	X	TCLP Semi Volatiles
AH #5 (0-1')		5/17/2019		X				X				1 N	X	RCI
AH #5 (1-1.5')		5/17/2019		X				X				1 N	X	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: <i>Antonia S. Tule</i>	Date: 5/17/19	Time: 14:40	Received by: <i>[Signature]</i>	Date: 5/17/19	Time: 14:40
Relinquished by:	Date:	Time:	Received by: <i>[Signature]</i>	Date: 5/17/19	Time: 07:40
Relinquished 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: 4.9/4.7 18-0.2 (Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

ORIGIN ID:CAOA (281) 240-4200 SAMPLE CUSTODY SAMPLE CUSTODY 1089 N CANAL ST CARLSBAD, NM 88220 UNITED STATES US	SHIP DATE: 17MAY19 ACTWGT: 59.00 LB CMO: 114488676/NET4100 DIMS: 24x13x13 IN BILL SENDER
TO SAMPLE RECEIVING MIDLAND	
200 W INTERSTATE 20 MIDLAND TX 79701 (432) 704-5440 REF:	
PO: DEPT:	
	
	
TRACK# 7752 4951 5802 PRIORITY OVERNIGHT SATURDAY HOLD HLD 79701 TX-US LBB 41 MAFA 	

565J1/D66C/23AD

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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 05/20/2019 07:26:00 AM

Work Order #: 624787

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist**Comments**

#1 *Temperature of cooler(s)?	4.7
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel

Date: 05/20/2019

Checklist reviewed by:

Jessica Kramer

Date: 05/20/2019



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

June 28, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 06/27/19 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 1 (2' BEB) (H902220-01)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04		
Total BTEX	<0.300	0.300	06/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	06/28/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	10.6	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 70.2 % 41-142

Surrogate: 1-Chlorooctadecane 75.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 2 (2' BEB) (H902220-02)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	0.055	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04		
Total BTX	<0.300	0.300	06/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

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	06/28/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	14.2	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 95.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 3 (2' BEB) (H902220-03)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04		
Total BTX	<0.300	0.300	06/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 4 (2' BEB) (H902220-04)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/27/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/27/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/27/2019	ND	5.13	85.5	6.00	6.04		
Total BTX	<0.300	0.300	06/27/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	34.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	11.5	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 82.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/27/2019
 Reported: 06/28/2019
 Project Name: DIAMOND 31 FED COM 2H
 Project Number: 212C-MD-01758
 Project Location: EOG - LEA CO NM

Sampling Date: 06/27/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM HOLE 5 (2' BEB) (H902220-05)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 6 (2' BEB) (H902220-06)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 78.0 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 7 (2' BEB) (H902220-07)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	17.6	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 91.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 8 (2' BEB) (H902220-08)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	0.054	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.1 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 9 (2' BEB) (H902220-09)

BTX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	18.3	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 78.7 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 10 (2' BEB) (H902220-10)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	54.1	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	18.7	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.2 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 11 (2' BEB) (H902220-11)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	12.8	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 12 (2' BEB) (H902220-12)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	82.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	24.9	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 93.4 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 13 (2' BEB) (H902220-13)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	13.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 61.6 % 41-142

Surrogate: 1-Chlorooctadecane 67.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 14 (2' BEB) (H902220-14)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 79.5 % 41-142

Surrogate: 1-Chlorooctadecane 84.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 15 (2' BEB) (H902220-15)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	19.9	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 67.8 % 41-142

Surrogate: 1-Chlorooctadecane 73.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 16 (2' BEB) (H902220-16)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	0.059	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 60.7 % 41-142

Surrogate: 1-Chlorooctadecane 65.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 17 (2' BEB) (H902220-17)

BTEx 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.82	90.8	2.00	4.84		
Toluene*	<0.050	0.050	06/28/2019	ND	1.77	88.4	2.00	5.74		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.78	89.1	2.00	5.72		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.13	85.5	6.00	6.04		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	218	109	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	232	116	200	1.87	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 71.7 % 41-142

Surrogate: 1-Chlorooctadecane 77.8 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 18 (2' BEB) (H902220-18)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	30.4	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 91.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.4 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 19 (2' BEB) (H902220-19)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 92.8 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 20 (2' BEB) (H902220-20)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 95.0 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 21 (2' BEB) (H902220-21)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 73.2 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 22 (2' BEB) (H902220-22)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 99.3 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 23 (2' BEB) (H902220-23)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	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	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 94.0 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 24 (2' BEB) (H902220-24)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00	QR-03	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 90.7 % 41-142

Surrogate: 1-Chlorooctadecane 95.4 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 25 (2' BEB) (H902220-25)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEx	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 98.6 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 26 (2' BEB) (H902220-26)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	18.2	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 27 (2' BEB) (H902220-27)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	44.7	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	17.2	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 28 (2' BEB) (H902220-28)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	22.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 29 (2' BEB) (H902220-29)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	10.7	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 30 (2' BEB) (H902220-30)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	41.4	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 84.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 31 (2' BEB) (H902220-31)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	14.2	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

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Analytical Results For:

TETRA TECH
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
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 Fax To: (432) 682-3946

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 32 (2' BEB) (H902220-32)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 98.7 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 33 (2' BEB) (H902220-33)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEx	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	25.8	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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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
 MIKE CARMONA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BOTTOM HOLE 34 (2' BEB) (H902220-34)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 98.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: NSW - 1 (H902220-35)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEx	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 86.4 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: ESW - 1 (H902220-36)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416		
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236		
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957		
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803		
Total BTEX	<0.300	0.300	06/28/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	31.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: WSW - 1 (H902220-37)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	1.99	99.5	2.00	0.416	
Toluene*	<0.050	0.050	06/28/2019	ND	2.00	99.8	2.00	0.236	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.89	94.3	2.00	0.957	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.66	94.4	6.00	0.803	
Total BTEx	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	199	99.3	200	0.276	
DRO >C10-C28*	<10.0	10.0	06/28/2019	ND	188	94.2	200	0.671	
EXT DRO >C28-C36	<10.0	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.5 % 37.6-147

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Analytical Results For:

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

Received:	06/27/2019	Sampling Date:	06/27/2019
Reported:	06/28/2019	Sampling Type:	Soil
Project Name:	DIAMOND 31 FED COM 2H	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-01758	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SSW - 1 (H902220-38)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/28/2019	ND	2.04	102	2.00	0.644	
Toluene*	<0.050	0.050	06/28/2019	ND	2.08	104	2.00	0.380	
Ethylbenzene*	<0.050	0.050	06/28/2019	ND	1.94	96.9	2.00	1.34	
Total Xylenes*	<0.150	0.150	06/28/2019	ND	5.95	99.1	6.00	1.78	
Total BTX	<0.300	0.300	06/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	06/28/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2019	ND	188	93.8	200	3.60	
DRO >C10-C28*	43.9	10.0	06/28/2019	ND	193	96.4	200	2.70	
EXT DRO >C28-C36	21.9	10.0	06/28/2019	ND					

Surrogate: 1-Chlorooctane 68.0 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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

Released to Imaging: 9/23/2021 8:08:08 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

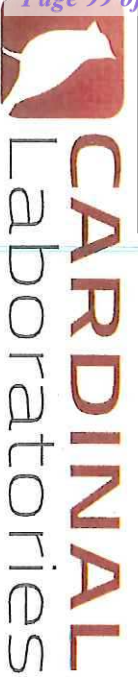
Company Name: <u>Texra Tech</u>		P.O. #:		
Project Manager: <u>Mike Curran</u>		Company: <u>ETC</u>		
Address: <u>901 W. Hall St.</u>		Attn: <u>James Kennedy</u>		
City: <u>Midland</u>	State: <u>TX</u> Zip: <u>79701</u>	Address: <u>5504 Champions Dr.</u>		
Phone #: <u>432-220-6197</u>	Fax #: <u></u>	City: <u>Midland</u>		
Project #: <u>212C-MD-01158</u>	Project Owner: <u>ETC</u>	State: <u>TX</u> Zip: <u>79706</u>		
Project Name: <u>Diamond 31 Fee Can 24</u>		Phone #: <u>432-258-4546</u>		
Project Location: <u>Lea Co. NM</u>		Fax #: <u></u>		
Sampler Name: <u>Stephen Rader</u>				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11	Bottom Hole 11 (20683)		1			X				6/21/14		BTEX 8021 B
12	Bottom Hole 12 (20680)		1			X				6/21/14		TPH 8015 M
13	Bottom Hole 13 (20683)		1			X				6/21/14		Chloride
14	Bottom Hole 14 (20683)		1			X				6/21/14		
15	Bottom Hole 15 (20683)		1			X				6/21/14		
16	Bottom Hole 16 (20683)		1			X				6/21/14		
17	Bottom Hole 17 (20683)		1			X				6/21/14		
18	Bottom Hole 18 (20683)		1			X				6/21/14		
19	Bottom Hole 19 (20683)		1			X				6/21/14		
20	Bottom Hole 20 (20683)		1			X				6/21/14		

Relinquished By: <u>[Signature]</u>	Date: <u>6-27-19</u>	Received By: <u>[Signature]</u>	Date: <u>6-27-19</u>
Relinquished By: <u>[Signature]</u>	Date: <u>6-27-19</u>	Received By: <u>[Signature]</u>	Date: <u>6-27-19</u>

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Phone #: <u></u>
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Fax #: <u></u>
REMARKS: <u>RUST</u>	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Texra Tech		P.O. #:	
Project Manager: Mike Curran		Company: ETC	
Address: 901 W. Ball St.		Attn: James Kennedy	
City: Mildland State: TX Zip: 79201		Address: 5504 Cummings Dr.	
Phone #: 432-228-0197 Fax #: 		City: Mildland	
Project #: 212C-MD-01958 Project Owner: EGG		State: TX Zip: 79206	
Project Location: Lea Co., NM		Phone #: 432-258-4546	
Sampler Name: Stephen Reals		Fax #: 	

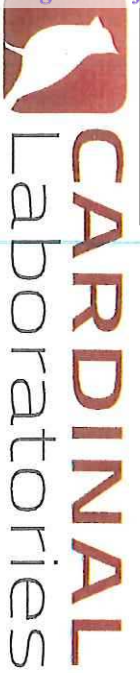
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
HD00320															
-21	Bottom Hole 21 (2'8" E)		1	X						6/21/14		X	X	X	
-22	Bottom Hole 22 (2'8" E)		1	X						6/21/14		X	X	X	
-23	Bottom Hole 23 (2'8" E)		1	X						6/21/14		X	X	X	
-24	Bottom Hole 24 (2'8" E)		1	X						6/21/14		X	X	X	
-25	Bottom Hole 25 (2'8" E)		1	X						6/21/14		X	X	X	
-26	Bottom Hole 26 (2'8" E)		1	X						6/21/14		X	X	X	
-27	Bottom Hole 27 (2'8" E)		1	X						6/21/14		X	X	X	
-28	Bottom Hole 28 (2'8" E)		1	X						6/21/14		X	X	X	
-29	Bottom Hole 29 (2'8" E)		1	X						6/21/14		X	X	X	
-30	Bottom Hole 30 (2'8" E)		1	X						6/21/14		X	X	X	

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Relinquished By:	Date: 6-27-19	Received By:	Date: 6-27-19
Relinquished By:	Date: 6-27-19	Received By:	Date: 6-27-19

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	RG

REMARKS: **ROSH**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Texra Tech		P.O. #:	
Project Manager: Mike Lawrence		Company: ETU	
Address: 901 W. Hall St.		Attn: James Kennedy	
City: Midland State: TX Zip: 79701		Address: 5504 Cummings Dr.	
Phone #: 432-228-6197 Fax #: 		City: Midland	
Project #: 212C-MD-01958 Project Owner: ETU		State: TX Zip: 79706	
Project Name: Diamond 31 Fea Can 24		Phone #: 432-258-4546	
Project Location: Lea Co. NM		Fax #: 	
Sampler Name: Stephen Reas			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			SAMPLING		DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :							
H00000																			
-31	Bottom Hole 31 (21350)		1	X													X	X	X
-32	Bottom Hole 32 (21350)		1	X													X	X	X
-33	Bottom Hole 33 (21350)		1	X													X	X	X
-34	Bottom Hole 34 (21350)		1	X													X	X	X
-35	NSW-1		1														X	X	X
-36	ESW-1		1														X	X	X
-37	WSW-1		1														X	X	X
-38	SSW-1		1														X	X	X

Relinquished By:	Date: 6-27-19	Received By:	Date: 6-27-19
Time: 14:30	Time: 14:30		

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	ROSH
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

REMARKS:

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

July 09, 2019

MIKE CARMONA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: DIAMOND 31 FED COM 2H

Enclosed are the results of analyses for samples received by the laboratory on 07/03/19 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BOTTOM HOLE 12 (2' BEB)	H902290-01	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 35 (5' BEB)	H902290-02	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 36 (5' BEB)	H902290-03	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 37 (5' BEB)	H902290-04	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 38 (5' BEB)	H902290-05	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 39 (5' BEB)	H902290-06	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 40 (5' BEB)	H902290-07	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 41 (5' BEB)	H902290-08	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 42 (5' BEB)	H902290-09	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 43 (5' BEB)	H902290-10	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 44 (5' BEB)	H902290-11	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 45 (5' BEB)	H902290-12	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 46 (5' BEB)	H902290-13	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 47 (5' BEB)	H902290-14	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 48 (5' BEB)	H902290-15	Soil	03-Jul-19 00:00	03-Jul-19 12:45
BOTTOM HOLE 49 (4' BEB)	H902290-16	Soil	03-Jul-19 00:00	03-Jul-19 12:45
NSW - 2	H902290-17	Soil	03-Jul-19 00:00	03-Jul-19 12:45
SSW - 2	H902290-18	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 2	H902290-19	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 2	H902290-20	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 3	H902290-21	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 3	H902290-22	Soil	03-Jul-19 00:00	03-Jul-19 12:45
NSW - 3	H902290-23	Soil	03-Jul-19 00:00	03-Jul-19 12:45
SSW - 3	H902290-24	Soil	03-Jul-19 00:00	03-Jul-19 12:45
ESW - 4	H902290-25	Soil	03-Jul-19 00:00	03-Jul-19 12:45
WSW - 4	H902290-26	Soil	03-Jul-19 00:00	03-Jul-19 12:45

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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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

07/09/19 - Client called and brought to our attention that we put the wrong sample ID for -20. This is the revised report with the corrected sample ID for -20. This report will replace the one sent on 07/05/19.

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A handwritten signature in black ink, appearing to read "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
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 12 (2' BEB)
H902290-01 (Soil)

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

Chloride	<16.0		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.3-129 9070315 BF 03-Jul-19 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
DRO >C10-C28*	30.7		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
EXT DRO >C28-C36	23.8		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	

Surrogate: 1-Chlorooctane 97.9 % 41-142 9070313 MS 03-Jul-19 8015B

Surrogate: 1-Chlorooctadecane 104 % 37.6-147 9070313 MS 03-Jul-19 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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 35 (5' BEB)**H902290-02 (Soil)**

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

Chloride	176		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	03-Jul-19	8015B	

Surrogate: 1-Chlorooctane			95.6 %	41-142		9070313	MS	03-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	37.6-147		9070313	MS	03-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 36 (5' BEB)**H902290-03 (Soil)**

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

Chloride	256		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			101 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			107 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 37 (5' BEB)**H902290-04 (Soil)**

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

Chloride	176		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			98.5 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 38 (5' BEB)**H902290-05 (Soil)**

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

Chloride	240		16.0	mg/kg	4	9070401	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			94.2 %		41-142	9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			101 %		37.6-147	9070313	MS	04-Jul-19	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 39 (5' BEB)**H902290-06 (Soil)**

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

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			89.2 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			96.7 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 40 (5' BEB)**H902290-07 (Soil)**

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

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			103 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			110 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 41 (5' BEB)**H902290-08 (Soil)**

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

Chloride	272		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			105 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			95.6 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			101 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 42 (5' BEB)**H902290-09 (Soil)**

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

Chloride	176		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070313	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			104 %	41-142		9070313	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	37.6-147		9070313	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 43 (5' BEB)**H902290-10 (Soil)**

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

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			104 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			111 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 44 (5' BEB)**H902290-11 (Soil)**

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

Chloride	240		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			101 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			108 %		37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 45 (5' BEB)**H902290-12 (Soil)**

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

Chloride	176		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			103 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 46 (5' BEB)**H902290-13 (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	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			103 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			93.0 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			98.0 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 47 (5' BEB)**H902290-14 (Soil)**

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

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			107 %	73.3-129		9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			98.3 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			103 %	37.6-147		9070316	MS	04-Jul-19	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 48 (5' BEB)**H902290-15 (Soil)**

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

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070315	BF	03-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070315	BF	03-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		73.3-129	9070315	BF	03-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			88.7 %		41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			92.3 %		37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

BOTTOM HOLE 49 (4' BEB)**H902290-16 (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	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			97.5 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			105 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

NSW - 2
H902290-17 (Soil)

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

Chloride	112		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B
Toluene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B
Total BTEX	<0.300	0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B

Surrogate: 4-Bromofluorobenzene (PID)	99.1 %	73.3-129	9070310	ms	04-Jul-19	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B

Surrogate: 1-Chlorooctane	109 %	41-142	9070316	MS	04-Jul-19	8015B
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Surrogate: 1-Chlorooctadecane	114 %	37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

SSW - 2
H902290-18 (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	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.2 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			111 %		37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

ESW - 2
H902290-19 (Soil)

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

Chloride	112		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane	102 %	41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane	109 %	37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

WSW - 2
H902290-20 (Soil)

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

Chloride	240		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	102 %	73.3-129	9070310	ms	04-Jul-19	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B

Surrogate: 1-Chlorooctane	105 %	41-142	9070316	MS	04-Jul-19	8015B
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Surrogate: 1-Chlorooctadecane	112 %	37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

ESW - 3
H902290-21 (Soil)

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

Chloride	160		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %	41-142		9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			109 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

WSW - 3
H902290-22 (Soil)

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

Chloride	192		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.7 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.6 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %		37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

NSW - 3
H902290-23 (Soil)

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

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	100 %	73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane	101 %	41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane	107 %	37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

SSW - 3
H902290-24 (Soil)

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

Chloride	144		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

<i>Surrogate: 1-Chlorooctane</i>			99.3 %		41-142	9070316	MS	04-Jul-19	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

ESW - 4
H902290-25 (Soil)

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

Chloride	128		16.0	mg/kg	4	9070402	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	101 %	73.3-129	9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane	104 %	41-142	9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane	108 %	37.6-147	9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

WSW - 4
H902290-26 (Soil)

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

Chloride	112		16.0	mg/kg	4	9070403	AC	04-Jul-19	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Toluene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	9070310	ms	04-Jul-19	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	9070310	ms	04-Jul-19	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		9070310	ms	04-Jul-19	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9070316	MS	04-Jul-19	8015B	

Surrogate: 1-Chlorooctane			100 %	41-142		9070316	MS	04-Jul-19	8015B	
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Surrogate: 1-Chlorooctadecane			106 %	37.6-147		9070316	MS	04-Jul-19	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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070401 - 1:4 DI Water**Blank (9070401-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	ND	16.0	mg/kg							
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LCS (9070401-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (9070401-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	400	16.0	mg/kg	400		100	80-120	7.69	20	
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Batch 9070402 - 1:4 DI Water**Blank (9070402-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	ND	16.0	mg/kg							
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LCS (9070402-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (9070402-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
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Batch 9070403 - 1:4 DI Water**Blank (9070403-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	ND	16.0	mg/kg							
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LCS (9070403-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	400	16.0	mg/kg	400		100	80-120			
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: DIAMOND 31 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 9070403 - 1:4 DI Water**LCS Dup (9070403-BSD1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

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 9070310 - Volatiles**Blank (9070310-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

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)	0.0971		mg/kg	0.100		97.1	73.3-129			

LCS (9070310-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Benzene	1.66	0.050	mg/kg	2.00		82.9	72.2-131			
Toluene	1.76	0.050	mg/kg	2.00		88.1	71.7-126			
Ethylbenzene	1.72	0.050	mg/kg	2.00		85.8	68.9-126			
Total Xylenes	5.23	0.150	mg/kg	6.00		87.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0986		mg/kg	0.100		98.6	73.3-129			

LCS Dup (9070310-BSD1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

Benzene	1.62	0.050	mg/kg	2.00		80.8	72.2-131	2.61	6.91	
Toluene	1.71	0.050	mg/kg	2.00		85.6	71.7-126	2.88	7.12	
Ethylbenzene	1.67	0.050	mg/kg	2.00		83.6	68.9-126	2.61	7.88	
Total Xylenes	5.05	0.150	mg/kg	6.00		84.1	71.4-125	3.57	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.0973		mg/kg	0.100		97.3	73.3-129			

Batch 9070315 - Volatiles**Blank (9070315-BLK1)**

Prepared & Analyzed: 03-Jul-19

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)	0.107		mg/kg	0.100		107	73.3-129			

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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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

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 9070315 - Volatiles**LCS (9070315-BS1)**

Prepared & Analyzed: 03-Jul-19

Benzene	1.61	0.050	mg/kg	2.00		80.5	72.2-131			
Toluene	1.75	0.050	mg/kg	2.00		87.4	71.7-126			
Ethylbenzene	1.74	0.050	mg/kg	2.00		86.8	68.9-126			
Total Xylenes	5.28	0.150	mg/kg	6.00		88.0	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	73.3-129			

LCS Dup (9070315-BS1)

Prepared & Analyzed: 03-Jul-19

Benzene	1.43	0.050	mg/kg	2.00		71.5	72.2-131	11.8	6.91	QR-04, BS2
Toluene	1.59	0.050	mg/kg	2.00		79.3	71.7-126	9.68	7.12	QR-04
Ethylbenzene	1.57	0.050	mg/kg	2.00		78.3	68.9-126	10.4	7.88	QR-04
Total Xylenes	4.76	0.150	mg/kg	6.00		79.4	71.4-125	10.3	7.46	QR-04
Surrogate: 4-Bromofluorobenzene (PID)	0.104		mg/kg	0.100		104	73.3-129			

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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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

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

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

Batch 9070313 - General Prep - Organics**Blank (9070313-BLK1)**

Prepared & Analyzed: 03-Jul-19

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	47.3		mg/kg	50.0		94.7	41-142			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	37.6-147			

LCS (9070313-BS1)

Prepared & Analyzed: 03-Jul-19

GRO C6-C10	203	10.0	mg/kg	200		102	76.5-133			
DRO >C10-C28	197	10.0	mg/kg	200		98.7	72.9-138			
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132			
Surrogate: 1-Chlorooctane	51.0		mg/kg	50.0		102	41-142			
Surrogate: 1-Chlorooctadecane	51.6		mg/kg	50.0		103	37.6-147			

LCS Dup (9070313-BS1)

Prepared & Analyzed: 03-Jul-19

GRO C6-C10	208	10.0	mg/kg	200		104	76.5-133	2.47	20.6	
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138	0.675	20.6	
Total TPH C6-C28	407	10.0	mg/kg	400		102	78-132	1.59	18	
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	41-142			
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	37.6-147			

Batch 9070316 - General Prep - Organics**Blank (9070316-BLK1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

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	48.0		mg/kg	50.0		96.0	41-142			
Surrogate: 1-Chlorooctadecane	48.8		mg/kg	50.0		97.5	37.6-147			

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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 FED COM 2H
Project Number: 212C-MD-01758
Project Manager: MIKE CARMONA
Fax To: (432) 682-3946

Reported:
09-Jul-19 16:25

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

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

Batch 9070316 - General Prep - Organics**LCS (9070316-BS1)**

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

GRO C6-C10	197	10.0	mg/kg	200		98.7	76.5-133		
DRO >C10-C28	199	10.0	mg/kg	200		99.3	72.9-138		
Total TPH C6-C28	396	10.0	mg/kg	400		99.0	78-132		
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	41-142		
Surrogate: 1-Chlorooctadecane	50.1		mg/kg	50.0		100	37.6-147		

LCS Dup (9070316-BS1)

Prepared: 03-Jul-19 Analyzed: 04-Jul-19

GRO C6-C10	202	10.0	mg/kg	200		101	76.5-133	2.49	20.6
DRO >C10-C28	198	10.0	mg/kg	200		98.9	72.9-138	0.396	20.6
Total TPH C6-C28	400	10.0	mg/kg	400		100	78-132	1.05	18
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	41-142		
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	37.6-147		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

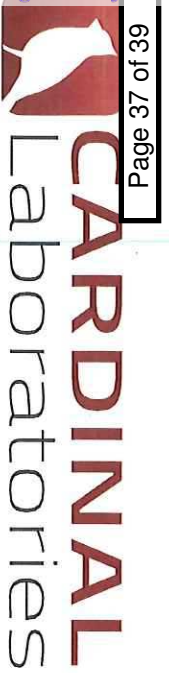
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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST																			
Project Manager: Mike Carmona		Company: ECOR																							
Address: 901 W. Hall St.		Attn: Tamara Kennedy																							
City: Midland		Address: 5504 Champion Dr.																							
Phone #: 432-220-0147		City: Midland																							
Fax #: 432-220-0147		State: TX Zip: 79706																							
Project #: 212C-MD-01758		Project Owner: ECOR																							
Project Name: Diamond 31 Fed Com 24		Phone #: 432-258-4546																							
Project Location: Len Co., NM		Fax #: 432-258-4546																							
Sampler Name: Stephen Reyes																									
FOR LAB USE ONLY																									
Lab I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV.		SAMPLING																	
Sample I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	
H902290		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 12 (2' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 35 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 36 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 37 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 38 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 39 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 40 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 41 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 42 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	
Bottom Hole 43 (5' BEB)		1		X		X		X		X		X		X		X		X		X		X		X	

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Reinquished By:	Date: 2-3-19	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Reinquished By:	Date: 12-4-15	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				
RUS14				

Delivered By: (Circle One) **3.8c #47**

Sample Condition: Cool ☒ Intact ☐ Yes ☐ No

Checked By: (Initials) **TS.**

CARDINAL
Laboratories

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

Released to Imaging: 9/23/2021 8:08:08 AM



Certificate of Analysis Summary 630254

Tetra Tech- Midland, Midland, TX

Project Name: EOG Diamond 31 Fed Com 2H

Project Id: 212C-MD-01758
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-09-19 03:02 pm
Report Date: 11-JUL-19
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	630254-001	630254-002	630254-003	630254-004		
	<i>Field Id:</i>	Bottom Hole 50 (0-1' BEB)	Bottom Hole 51 (0-1' BEB)	Bottom Hole 52 (0-1' BEB)	Bottom Hole 53 (0-1' BEB)		
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	Jul-09-19 00:00	Jul-09-19 00:00	Jul-09-19 00:00	Jul-09-19 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	Jul-09-19 17:00	Jul-09-19 17:00	Jul-09-19 17:00	Jul-09-19 17:00		
	<i>Analyzed:</i>	Jul-10-19 01:10	Jul-10-19 12:26	Jul-10-19 06:42	Jul-10-19 02:41		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		0.00455 0.000384	0.00282 0.000386	1.10 0.00771	0.108 0.00385		
Toluene		0.0820 0.000455	0.00854 0.000457	4.21 D 0.0457	0.637 0.00456		
Ethylbenzene		0.0467 0.000564	0.0128 0.000567	1.99 D 0.0566	0.466 0.00565		
m,p-Xylenes		0.0851 0.00101	0.0241 0.00102	5.05 D 0.102	5.84 0.0101		
o-Xylene		0.216 0.000344	0.0110 0.000346	2.88 D 0.0345	3.97 0.00344		
Total Xylenes		0.301 0.000344	0.0351 0.000346	7.93 0.0345	9.81 0.00344		
Total BTEX		0.434 0.000344	0.0593 0.000346	15.2 0.00771	11.0 0.00344		
Chloride by EPA 300	<i>Extracted:</i>	Jul-09-19 16:40	Jul-09-19 16:40	Jul-09-19 16:40	Jul-09-19 16:40		
	<i>Analyzed:</i>	Jul-09-19 19:13	Jul-09-19 19:33	Jul-09-19 19:38	Jul-09-19 19:42		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		213 0.858	289 0.862	40.9 0.860	573 0.852		
TPH By SW8015 Mod	<i>Extracted:</i>	*** ** *	*** ** *	*** ** *	*** ** *		
	<i>Analyzed:</i>	Jul-10-19 01:25	Jul-10-19 01:49	Jul-10-19 02:13	Jul-10-19 02:37		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		375 7.97	292 7.99	1510 8.00	763 7.99		
Diesel Range Organics (DRO)		2060 8.10	4620 8.11	3160 8.13	2620 8.12		
Motor Oil Range Hydrocarbons (MRO)		116 8.10	290 8.11	153 8.13	125 8.12		
Total TPH		2550 7.97	5200 7.99	4820 8.00	3510 7.99		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.9%

Jessica Kramer
Project Assistant

Analytical Report 630254

for
Tetra Tech- Midland

Project Manager: Mike Carmona

EOG Diamond 31 Fed Com 2H

212C-MD-01758

11-JUL-19

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-19-29), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-19-19), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429), North Carolina (483)



11-JUL-19

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: XENCO Report No(s): **630254**

EOG Diamond 31 Fed Com 2H

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 630254. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 630254 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

**Sample Cross Reference 630254****Tetra Tech- Midland, Midland, TX**

EOG Diamond 31 Fed Com 2H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Bottom Hole 50 (0-1' BEB)	S	07-09-19 00:00		630254-001
Bottom Hole 51 (0-1' BEB)	S	07-09-19 00:00		630254-002
Bottom Hole 52 (0-1' BEB)	S	07-09-19 00:00		630254-003
Bottom Hole 53 (0-1' BEB)	S	07-09-19 00:00		630254-004



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG Diamond 31 Fed Com 2H

Project ID: 212C-MD-01758
Work Order Number(s): 630254

Report Date: 11-JUL-19
Date Received: 07/09/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3094959 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 630254-003,630254-001,630254-002,630254-004.



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 50 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-001

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	213	5.00	0.858	mg/kg	07.09.19 19.13		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	375	14.9	7.97	mg/kg	07.10.19 01.25		1
Diesel Range Organics (DRO)	C10C28DRO	2060	14.9	8.10	mg/kg	07.10.19 01.25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	116	14.9	8.10	mg/kg	07.10.19 01.25		1
Total TPH	PHC635	2550	14.9	7.97	mg/kg	07.10.19 01.25		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	95	%	70-135	07.10.19 01.25			
o-Terphenyl	84-15-1	93	%	70-135	07.10.19 01.25			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 50 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-001

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00455	0.00200	0.000384	mg/kg	07.10.19 01.10		1
Toluene	108-88-3	0.0820	0.00200	0.000455	mg/kg	07.10.19 01.10		1
Ethylbenzene	100-41-4	0.0467	0.00200	0.000564	mg/kg	07.10.19 01.10		1
m,p-Xylenes	179601-23-1	0.0851	0.00399	0.00101	mg/kg	07.10.19 01.10		1
o-Xylene	95-47-6	0.216	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Total Xylenes	1330-20-7	0.301	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Total BTEX		0.434	0.00200	0.000344	mg/kg	07.10.19 01.10		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	183	%	70-130	07.10.19 01.10	**		
1,4-Difluorobenzene	540-36-3	94	%	70-130	07.10.19 01.10			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 51 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-002

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	289	5.02	0.862	mg/kg	07.09.19 19.33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	292	15.0	7.99	mg/kg	07.10.19 01.49		1
Diesel Range Organics (DRO)	C10C28DRO	4620	15.0	8.11	mg/kg	07.10.19 01.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	290	15.0	8.11	mg/kg	07.10.19 01.49		1
Total TPH	PHC635	5200	15.0	7.99	mg/kg	07.10.19 01.49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	78	%	70-135	07.10.19 01.49			
o-Terphenyl	84-15-1	118	%	70-135	07.10.19 01.49			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 51 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-002

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00282	0.00201	0.000386	mg/kg	07.10.19 12.26		1
Toluene	108-88-3	0.00854	0.00201	0.000457	mg/kg	07.10.19 12.26		1
Ethylbenzene	100-41-4	0.0128	0.00201	0.000567	mg/kg	07.10.19 12.26		1
m,p-Xylenes	179601-23-1	0.0241	0.00402	0.00102	mg/kg	07.10.19 12.26		1
o-Xylene	95-47-6	0.0110	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Total Xylenes	1330-20-7	0.0351	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Total BTEX		0.0593	0.00201	0.000346	mg/kg	07.10.19 12.26		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	161	%	70-130	07.10.19 12.26	**		
1,4-Difluorobenzene	540-36-3	90	%	70-130	07.10.19 12.26			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 52 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-003

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.9	5.01	0.860	mg/kg	07.09.19 19.38		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1510	15.0	8.00	mg/kg	07.10.19 02.13		1
Diesel Range Organics (DRO)	C10C28DRO	3160	15.0	8.13	mg/kg	07.10.19 02.13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	153	15.0	8.13	mg/kg	07.10.19 02.13		1
Total TPH	PHC635	4820	15.0	8.00	mg/kg	07.10.19 02.13		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	102	%	70-135	07.10.19 02.13			
o-Terphenyl	84-15-1	112	%	70-135	07.10.19 02.13			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 52 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-003

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	1.10	0.0401	0.00771	mg/kg	07.10.19 06.42		20
Toluene	108-88-3	4.21	0.200	0.0457	mg/kg	07.10.19 03.27	D	100
Ethylbenzene	100-41-4	1.99	0.200	0.0566	mg/kg	07.10.19 03.27	D	100
m,p-Xylenes	179601-23-1	5.05	0.401	0.102	mg/kg	07.10.19 03.27	D	100
o-Xylene	95-47-6	2.88	0.200	0.0345	mg/kg	07.10.19 03.27	D	100
Total Xylenes	1330-20-7	7.93	0.200	0.0345	mg/kg	07.10.19 03.27		100
Total BTEX		15.2	0.0401	0.00771	mg/kg	07.10.19 03.27		100
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	463	%	70-130	07.10.19 06.42	**		
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.10.19 06.42			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 53 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-004

Date Collected: 07.09.19 00.00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.09.19 16.40

Basis: Wet Weight

Seq Number: 3094879

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	573	4.96	0.852	mg/kg	07.09.19 19.42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.09.19 14.00

Basis: Wet Weight

Seq Number: 3094854

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	763	15.0	7.99	mg/kg	07.10.19 02.37		1
Diesel Range Organics (DRO)	C10C28DRO	2620	15.0	8.12	mg/kg	07.10.19 02.37		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	125	15.0	8.12	mg/kg	07.10.19 02.37		1
Total TPH	PHC635	3510	15.0	7.99	mg/kg	07.10.19 02.37		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1-Chlorooctane	111-85-3	102	%	70-135	07.10.19 02.37			
o-Terphenyl	84-15-1	88	%	70-135	07.10.19 02.37			



Certificate of Analytical Results 630254

Tetra Tech- Midland, Midland, TX

EOG Diamond 31 Fed Com 2H

Sample Id: **Bottom Hole 53 (0-1' BEB)**

Matrix: Soil

Date Received: 07.09.19 15.02

Lab Sample Id: 630254-004

Date Collected: 07.09.19 00.00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DVM

% Moisture:

Analyst: FOV

Date Prep: 07.09.19 17.00

Basis: Wet Weight

Seq Number: 3094959

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.108	0.0200	0.00385	mg/kg	07.10.19 02.41		10
Toluene	108-88-3	0.637	0.0200	0.00456	mg/kg	07.10.19 02.41		10
Ethylbenzene	100-41-4	0.466	0.0200	0.00565	mg/kg	07.10.19 02.41		10
m,p-Xylenes	179601-23-1	5.84	0.0400	0.0101	mg/kg	07.10.19 02.41		10
o-Xylene	95-47-6	3.97	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Total Xylenes	1330-20-7	9.81	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Total BTEX		11.0	0.0200	0.00344	mg/kg	07.10.19 02.41		10
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	260	%	70-130	07.10.19 02.41	**		
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.10.19 02.41			



Flagging Criteria



- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Tetra Tech- Midland
EOG Diamond 31 Fed Com 2H

Analytical Method: Chloride by EPA 300

Seq Number: 3094879

MB Sample Id: 7681691-1-BLK

Matrix: Solid

LCS Sample Id: 7681691-1-BKS

Prep Method: E300P

Date Prep: 07.09.19

LCSD Sample Id: 7681691-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	245	98	90-110	1	20	mg/kg	07.09.19 19:04	

Analytical Method: Chloride by EPA 300

Seq Number: 3094879

Parent Sample Id: 630254-001

Matrix: Soil

MS Sample Id: 630254-001 S

Prep Method: E300P

Date Prep: 07.09.19

MSD Sample Id: 630254-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	213	250	463	100	455	97	90-110	2	20	mg/kg	07.09.19 19:18	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094854

MB Sample Id: 7681678-1-BLK

Matrix: Solid

LCS Sample Id: 7681678-1-BKS

Prep Method: TX1005P

Date Prep: 07.09.19

LCSD Sample Id: 7681678-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<8.00	1000	1100	110	1120	112	70-135	2	20	mg/kg	07.09.19 17:00	
Diesel Range Organics (DRO)	<8.13	1000	1170	117	1180	118	70-135	1	20	mg/kg	07.09.19 17:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		95		92		70-135	%	07.09.19 17:00
o-Terphenyl	96		103		101		70-135	%	07.09.19 17:00

Analytical Method: TPH By SW8015 Mod

Seq Number: 3094854

Parent Sample Id: 630113-001

Matrix: Soil

MS Sample Id: 630113-001 S

Prep Method: TX1005P

Date Prep: 07.09.19

MSD Sample Id: 630113-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	9.52	997	994	99	1040	103	70-135	5	20	mg/kg	07.09.19 18:14	
Diesel Range Organics (DRO)	<8.10	997	1090	109	1170	117	70-135	7	20	mg/kg	07.09.19 18:14	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		96		70-135	%	07.09.19 18:14
o-Terphenyl	92		99		70-135	%	07.09.19 18:14

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C-A) / B$
 $RPD = 200 * |(C-E) / (C+E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland
EOG Diamond 31 Fed Com 2H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094959

MB Sample Id: 7681660-1-BLK

Matrix: Solid

LCS Sample Id: 7681660-1-BKS

Prep Method: SW5030B

Date Prep: 07.09.19

LCSD Sample Id: 7681660-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0774	78	0.0887	89	70-130	14	35	mg/kg	07.10.19 05:13	
Toluene	<0.000453	0.0994	0.0754	76	0.0865	87	70-130	14	35	mg/kg	07.10.19 05:13	
Ethylbenzene	<0.000561	0.0994	0.0859	86	0.0964	97	70-130	12	35	mg/kg	07.10.19 05:13	
m,p-Xylenes	<0.00101	0.199	0.173	87	0.196	98	70-130	12	35	mg/kg	07.10.19 05:13	
o-Xylene	<0.000342	0.0994	0.0833	84	0.0941	94	70-130	12	35	mg/kg	07.10.19 05:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		93		97		70-130	%	07.10.19 05:13
4-Bromofluorobenzene	98		106		113		70-130	%	07.10.19 05:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3094959

Parent Sample Id: 630227-001

Matrix: Soil

MS Sample Id: 630227-001 S

Prep Method: SW5030B

Date Prep: 07.09.19

MSD Sample Id: 630227-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000383	0.0994	0.0762	77	0.0797	80	70-130	4	35	mg/kg	07.10.19 05:57	
Toluene	<0.000453	0.0994	0.0751	76	0.0780	78	70-130	4	35	mg/kg	07.10.19 05:57	
Ethylbenzene	<0.000561	0.0994	0.0758	76	0.0814	82	70-130	7	35	mg/kg	07.10.19 05:57	
m,p-Xylenes	<0.00101	0.199	0.159	80	0.166	83	70-130	4	35	mg/kg	07.10.19 05:57	
o-Xylene	<0.000342	0.0994	0.0807	81	0.0841	84	70-130	4	35	mg/kg	07.10.19 05:57	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		95		70-130	%	07.10.19 05:57
4-Bromofluorobenzene	118		116		70-130	%	07.10.19 05:57

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

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

CONDITIONS

Action 43956

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 43956
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	The OCD will not grant a deferral due to DTW 18'.	9/23/2021
chensley	Closure report due 12/23/2021	9/23/2021