

Incident ID	nAPP2123839504
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: Todd Wells Title: Environmental Specialist
Signature: Todd Wells Date: 9/1/21
email: Todd_Wells@eogresources.com Telephone: (432) 686-3613

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

SITE INFORMATION

Report Type: Work Plan nAPP2123839504

General Site Information:

Site:	Redhills Rattlesnake Reuse Pit					
Company:	EOG Resources					
Section, Township and Range	Unit M	Sec. 22	T 26S	R 33E		
Lease Number:						
County:	Lea County					
GPS:	32.023535			-103.568026		
Surface Owner:	Private					
Mineral Owner:						
Directions:	From the intersection J-2 and Quay Valley Ln, head East on J-2 and follow for 3.88 miles. Turn right onto lease road. Follow for 0.86 miles. Turn left onto lease road, follow to location.					

Release Data:

Date Released:	6/7/2021
Type Release:	Produced Water
Source of Contamination:	Failed Drain Valve
Fluid Released:	7 bbl water
Fluids Recovered:	3 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, 79701
Phone number:	(432) 686-3613		(432) 682-4559
Fax:			
Email:	Todd_Wells@eogresources.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	110' Below Surface
Karst Potential:	Medium

Recommended Remedial Action Levels (RRALs) Beyond the Top 4.0' of Soil

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	20,000 mg/kg

**TETRA TECH**

August 31, 2021

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

**Re: Work Plan for the EOG Resources, Redhills Rattlesnake Reuse Pit, Unit M,
Section 22, Township 26 South, Range 33 East, Lea County, New Mexico.
NAPP2123839504**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to assess and remediate a release that occurred at the EOG Resources, Redhills Rattlesnake Reuse Pit, Unit M, Section 22, Township 26 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.023535°, -103.568026°. 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 June 7, 2021, and released approximately 7 barrels of produced water due to a failed drain valve. Approximately 3 barrels of produced water were recovered. The release occurred on a pad, impacting an area measuring approximately 460' X 275'. The C-141 form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. However, the site is located in a medium karst potential area. The nearest well is listed on the New Mexico Office of the State Engineer (NMOSE) water database is in section 22, approximately 0.49 miles from the site, and has a reported depth to groundwater of 110' below surface. Additionally, this well was drilled on November 20, 2012. Site characterization information is found in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed

Tetra Tech

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TETRA TECH

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 2,500 mg/kg (GRO + DRO + ORO) and 1,000 mg/kg (GRO + DRO) beyond the top 4.0' of soil. Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg, beyond the top 4.0' of soil.

Soil Assessment and Analytical Results

Initial Assessment

On July 29, 2021, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of seven (7) auger holes (AH-1 through AH-7) were installed in the release footprint with depths ranging from surface to 1.0' below surface, hitting refusal at shallow depths due to the dense lithology of the area. Additionally, nine (9) horizontals were installed to horizontally delineate the spill footprint. Selected samples were submitted to the laboratory 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 sample locations are shown in Figure 3.

Referring to Table 1, none of the samples reported benzene or total BTEX concentrations above the laboratory reporting limits. However, auger holes (AH-2 through AH-4) reported TPH concentrations above the 100 mg/kg threshold, with concentrations ranging from 110 mg/kg to 3,105 mg/kg, at depths ranging from surface to 1.0' below surface. In the areas of auger holes (AH-3 through AH-7), chloride concentrations were detected above the 600 mg/kg threshold, with concentrations ranging from 1,820 mg/kg to 42,800 mg/kg. The areas of horizontals (H-3 and H-7) reported TPH concentrations above the 100 mg/kg threshold, with concentrations ranging from 126 mg/kg to 322 mg/kg, at surface. The area of horizontal (H-3) reported a chloride concentration above the 600 mg/kg threshold, with a concentration of 689 mg/kg, at surface. However, due to the dense lithology in the area, vertical delineation was not found in the areas of auger holes (AH-2 through AH-7). Additionally, horizontal samples (H-3 and H-7) were not horizontally delineated during soil assessment activities, these areas will be delineated and remediated if necessary during remediation activities.

Trenches

Based on the laboratory data, Tetra Tech personnel returned to the site on August 23, 2021, to install thirteen (13) trenches (T-1 through T-13) to a total depths ranging from surface to 17.0' below surface to vertically define the TPH and chloride impact in the areas of auger holes (AH-2 through AH-7), and to assess the remaining impact. Select samples were submitted to the laboratory 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 sample locations are shown on Figure 3.

None of the trenches reported benzene or BTEX concentrations above the laboratory reporting limits. Additionally, none of the trenches, with the exception of trenches (Trench-1 and Trench-7) reported TPH concentrations above the 100 mg/kg threshold, the exceeding TPH concentrations were reported at depths ranging from surface to 2.0' below surface. All trenches,



with the exception of trenches (Trench-5, Trench-9, and Trench-12) reported chloride concentrations above the 600 mg/kg threshold, with concentrations ranging from 864 mg/kg to 4,960 mg/kg, at depths ranging from surface to 4.0' below surface. Additionally, all trenches showed vertical delineation at depths ranging from surface to 16.0' below surface.

Work Plan

Based on the laboratory results, EOG proposes to remediate the impact area by remediating the top 4.0' of soil to the surface reclamation standards, and any remaining impact will be held to the determined RRALs. The proposed remediation will range from depths of surface to 4.0' below surface, and the estimated total amount of soil to be remediated is approximately 9,024 cubic yards. Due to the size of this remediation, EOG requests a confirmation sample variance of collecting 5-point confirmation samples every 500 square feet. Once remediation activities are complete, 5-point bottom hole and sidewall confirmation samples will be collected to ensure concentrations are reported below the determined RRALs. EOG will remediate the release to the maximum extent practical that does not cause pipeline, equipment, or safety concerns, or cause major facility deconstruction. The 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'.

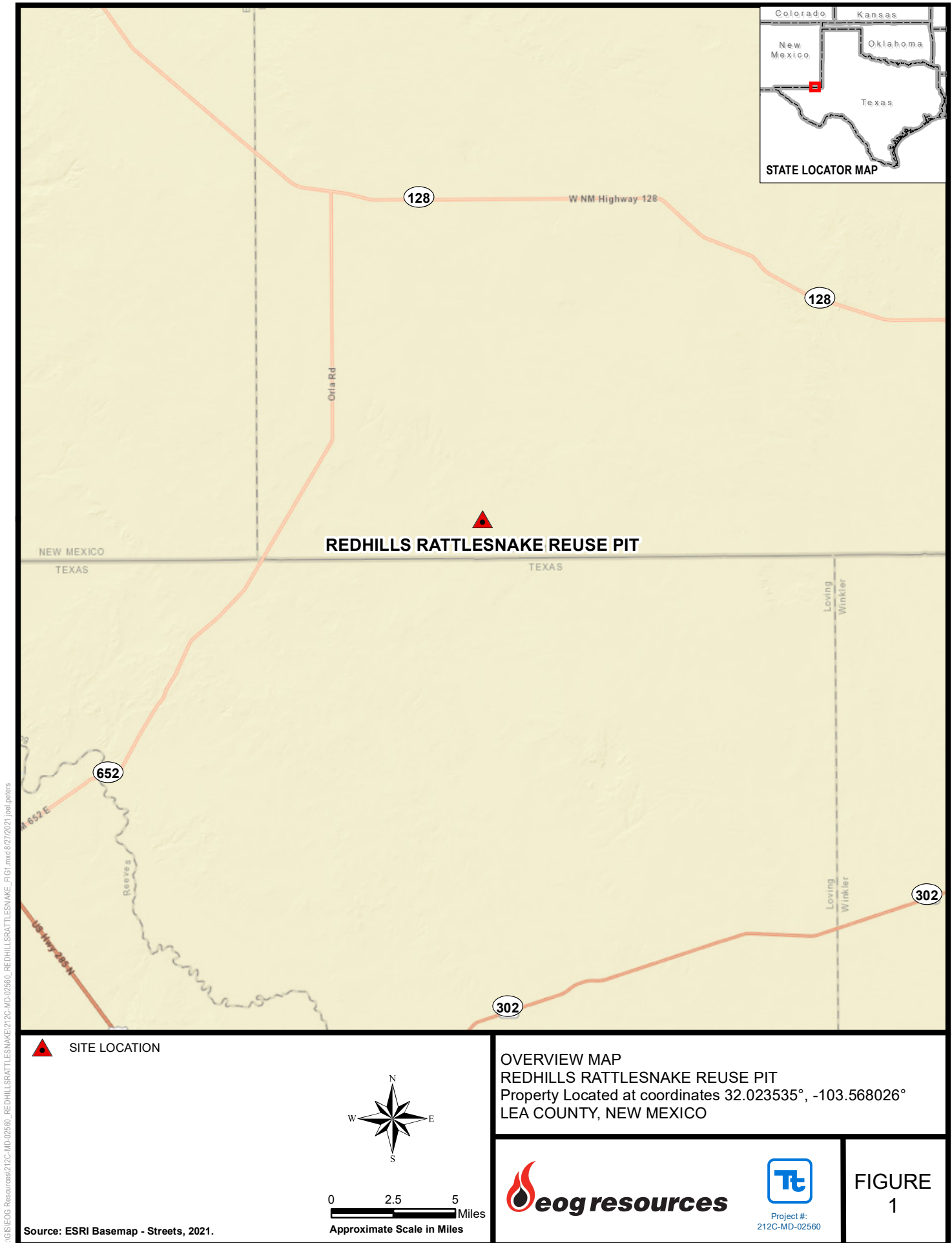
Brittany Long,
Project Manager

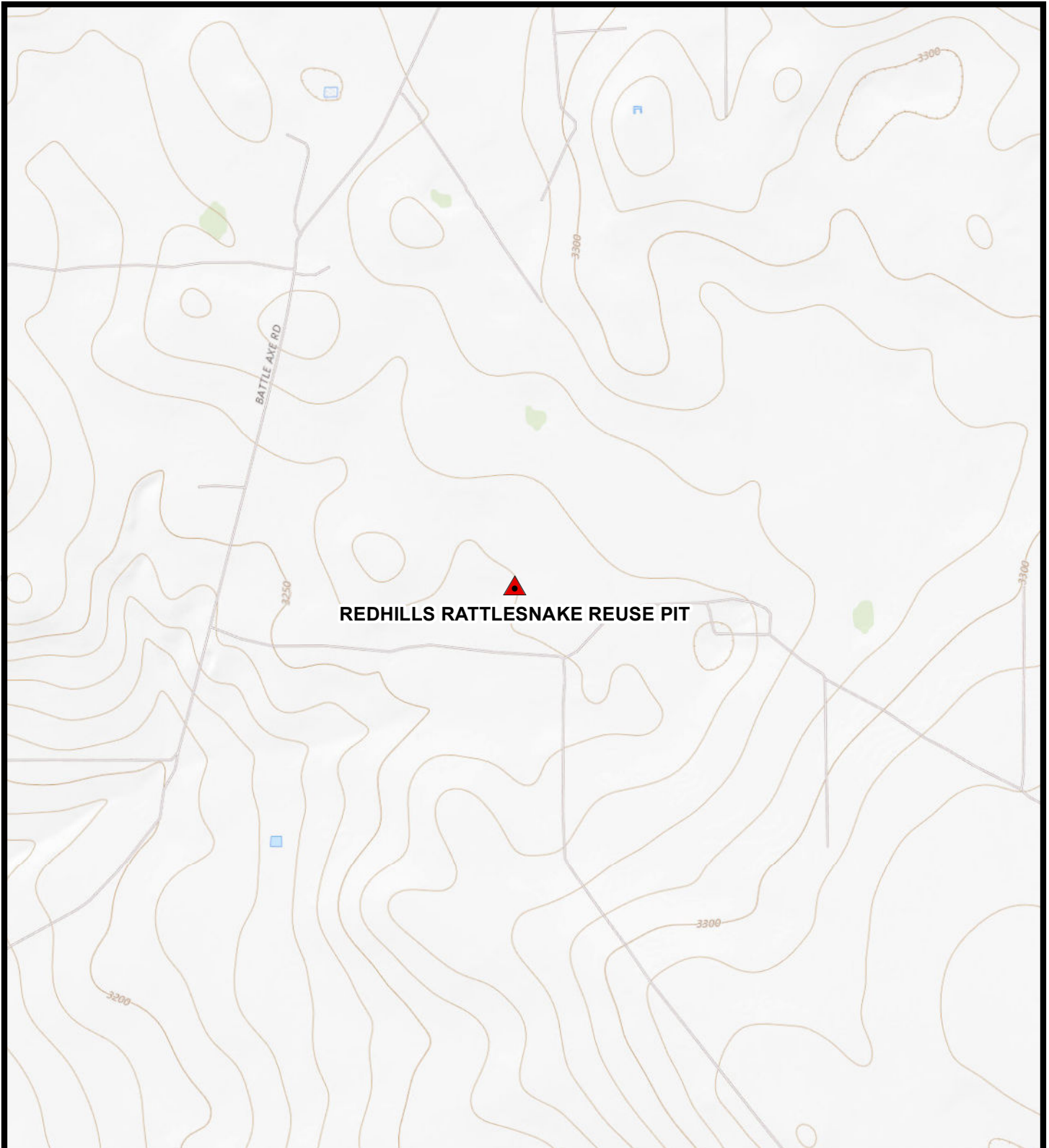
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

Clair Gonzales, P.G.
Senior Project Manager



Figures





 SITE LOCATION



0 1,000 2,000
Feet
Approximate Scale in Feet

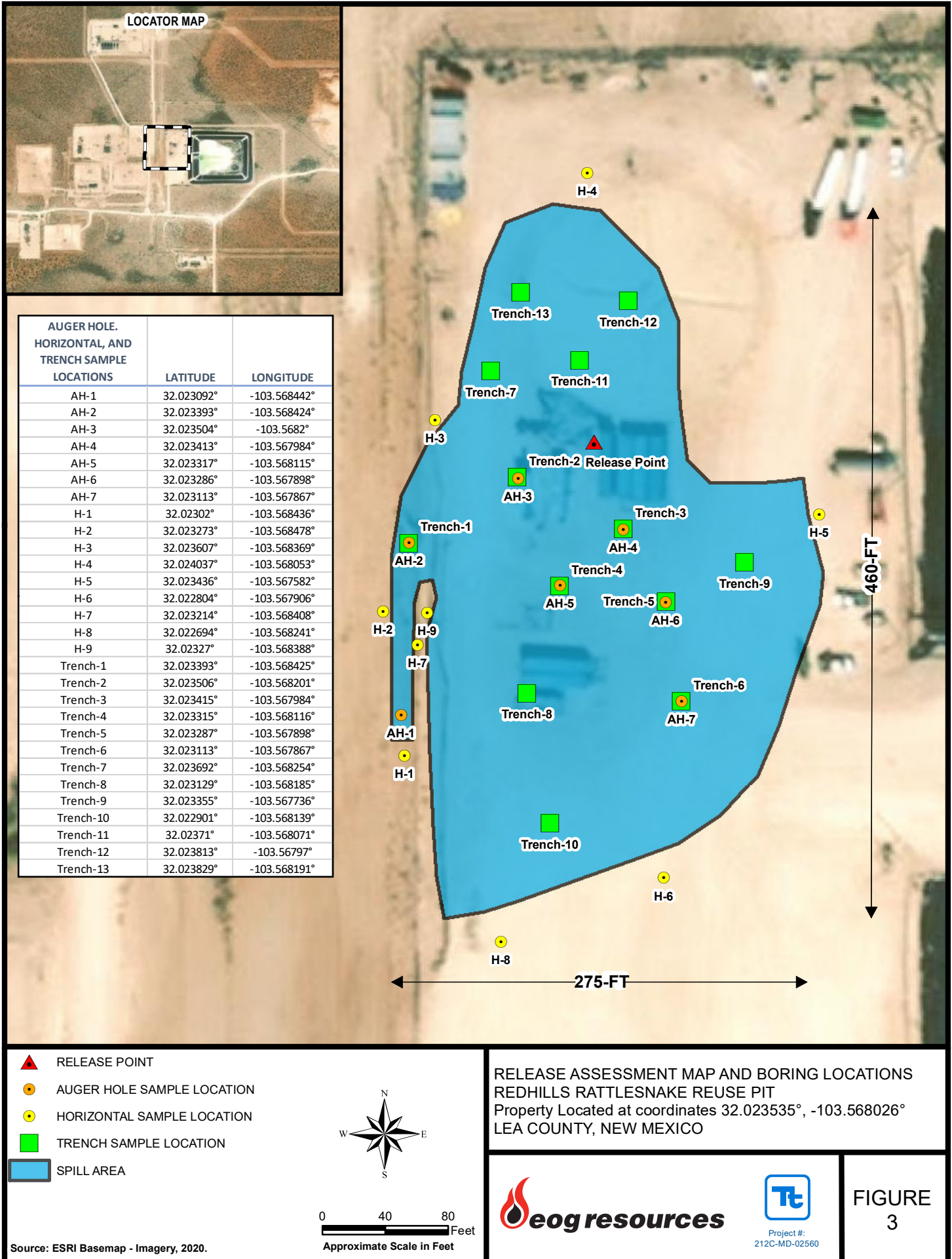
Source: USGS, The National Map,
Topo Base, 2021.

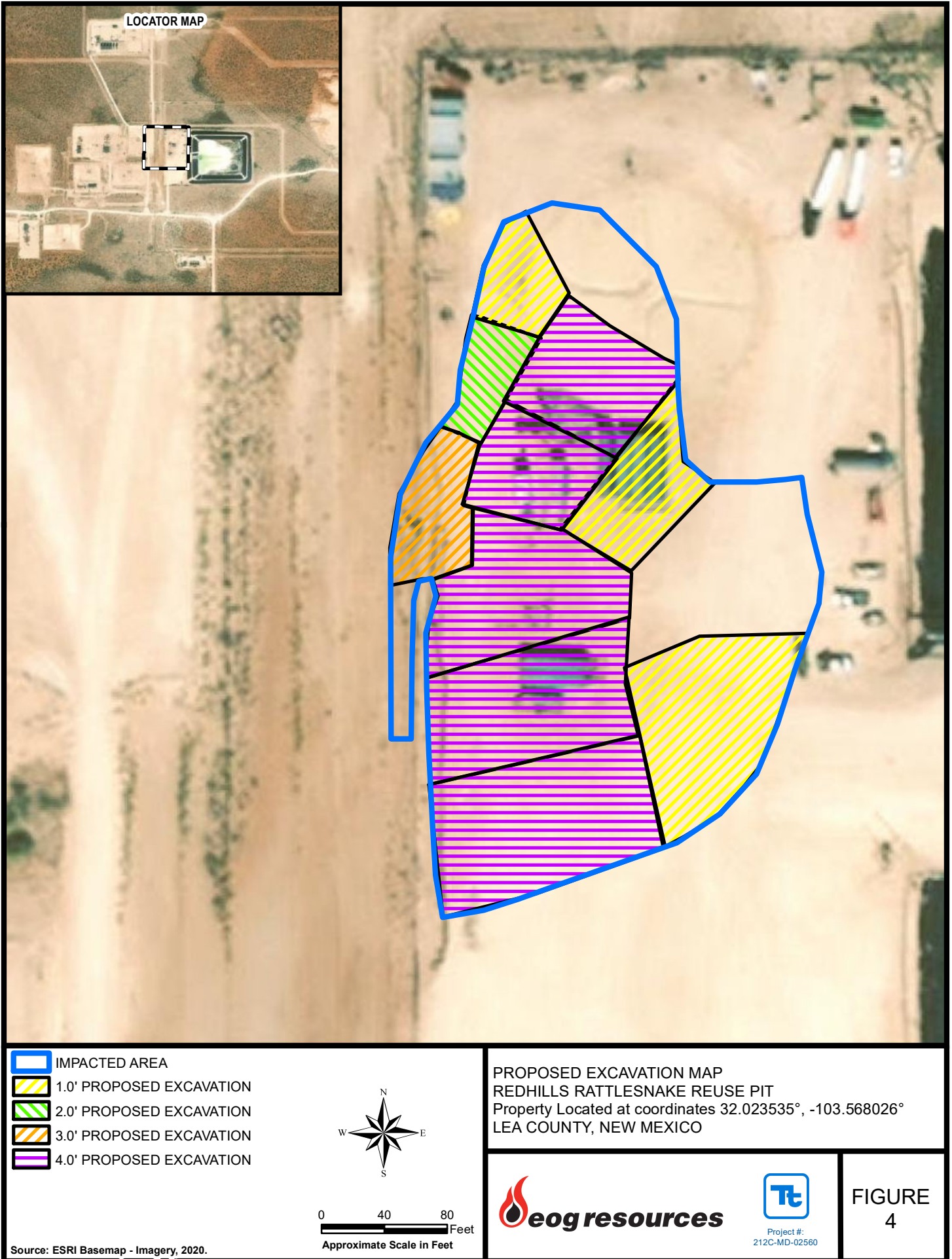
TOPOGRAPHIC MAP
REDHILLS RATTLESNAKE REUSE PIT
Property Located at coordinates 32.023535°, -103.568026°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02560

FIGURE
2







Tables

Table 1
EOG Resources
Rattlesnake Pump Spill
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.8
AH-2	7/29/2021	0-1	X	-	1,710	<49.9	223	1,930	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	435
Trench-1	8/23/2021	0-1'	X	-	<10.0	2,310	795	3,105	<0.050	<0.050	<0.050	<0.150	<0.300	240
	8/23/2021	1.0'	X	-	<10.0	986	369	1,355	<0.050	<0.050	<0.050	<0.150	<0.300	224
	8/23/2021	2.0'	X	-	<10.0	371	146	517	<0.050	<0.050	<0.050	<0.150	<0.300	416
	8/23/2021	3.0'	X	-	<10.0	<10.0	19.7	19.7	<0.050	<0.050	<0.050	<0.150	<0.300	880
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
8/23/2021	5.0'	X	-	<10.0	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
AH-3	7/29/2021	0-1	X	-	118	<50.0	<50.0	118	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	8,720
Trench-2	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,120
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,440
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,860
	8/23/2021	3.5'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,200
	8/23/2021	5.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
AH-4	7/29/2021	0-1	X	-	110	<50.0	<50.0	110	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	42,800
Trench-3	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	848
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,140
	8/23/2021	2.0'	X	-	<10.0	30.9	25.9	56.8	<0.050	<0.050	<0.050	<0.150	<0.300	336
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
AH-5	7/29/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,820
Trench-4	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,520
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,960
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,470
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,500
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,440
	8/23/2021	5.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
AH-6	7/29/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	0.00306	<0.00199	<0.00398	<0.00398	2,080
Trench-5	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	464
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
AH-7	7/29/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	0.00253	<0.00198	<0.00396	<0.00396	3,670
Trench-6	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	880
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Trench-7	8/23/2021	0-1'	X	-	<10.0	1,220	302	1,522	<0.050	<0.050	<0.050	<0.150	<0.300	1,570
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,760
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,310
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352

Table 1
EOG Resources
Rattlesnake Pump Spill
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
Trench-8	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,580
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,720
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,360
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,760
	8/23/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
	8/23/2021	8.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Trench-9	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	416
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Trench-10	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,040
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,810
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,240
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,680
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,040
	8/23/2021	5.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	288
Trench-11	8/23/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,240
	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,960
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,720
	8/23/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,960
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,440
	8/23/2021	5.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4040
	8/23/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4240
	8/23/2021	9.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864
	8/23/2021	10.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	912
	8/23/2021	12.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	944
Trench-12	8/23/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	8/23/2021	17.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
Trench-13	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
	8/23/2021	0-1'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
Trench-13	8/23/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	864
	8/23/2021	2.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
	8/23/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

Table 1
EOG Resources
Rattlesnake Pump Spill
Lea County, New Mexico

Sample ID	Sample Date	Excavtion 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						
H-1	7/29/2021	0-0.5	X	-	53.6	<50.0	<50.0	53.6	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	192
H-2	7/29/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	53.8
H-3	7/29/2021	0-0.5	X	-	241	<49.9	80.6	322	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	689
H-4	7/29/2021	0-0.5	X	-	57.0	<50.0	<50.0	57.0	<0.00201	0.00298	<0.00201	<0.00402	<0.00402	343
H-5	7/29/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	404
H-6	7/29/2021	0-0.5	X	-	87.8	<50.0	<50.0	87.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	130
H-7	7/29/2021	0-0.5	X	-	126	<49.9	<49.9	126	<0.00200	0.00757	0.00619	0.0102	0.0240	65.0
H-8	7/29/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	302
H-9	7/29/2021	0-0.5	X	-	54.3	<50.0	<50.0	54.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	392

(-) Not Analyzed
 Exceeds Thresholds



Photographic Documentation

EOG Resources
Redhills Rattlesnake Reuse Pit
Lea County, New Mexico



View of Impacted Area— View Northwest



View of Impacted Area— View Northeast

EOG Resources
Redhills Rattlesnake Reuse Pit
Lea County, New Mexico



TETRA TECH



View of Impacted Area— View Northwest



View of Impacted Area— View North



Appendix A

C-141 Document

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2123839504
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources	OGRID 7377
Contact Name Todd Wells	Contact Telephone (432) 686-3613
Contact email Todd_Wells@eogresources.com	Incident # (assigned by OCD) nAPP2123839504
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.023535° Longitude -103.568026°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Redhills Rattlesnake Reuse Pit	Site Type Reuse Water Pit
Date Release Discovered 6/7/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	22	26S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Oliver Kiehne)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 7	Volume Recovered (bbls) 3
	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: A drain valve on the volute of a pump came out and spilled produced water into a spill containment which overflowed onto the pad. Approximately 7 bbls of produced water released and 3 bbls was recovered.

Incident ID	NAPP2123839504
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Todd Wells</u> Title: <u>Environmental Specialist</u> Signature: <u>Todd Wells</u> Date: <u>8-26-21</u> email: <u>Todd_Wells@eogresources.com</u> Telephone: <u>(432) 686-3613</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>8/26/2021</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

Site Characterization Documents




New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C	03577 POD1	3 3 3	22	26S	33E	636010	3543771 

Driller License: 1654 **Driller Company:** NOT WORKING FOR HIRE--SIRMAN DRILLING AND CONSTRUCT

Driller Name:

Drill Start Date: 11/19/2012 **Drill Finish Date:** 11/20/2012 **Plug Date:**

Log File Date: 12/11/2012 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 35 GPM

Casing Size: 6.00 **Depth Well:** 750 feet **Depth Water:** 110 feet

Water Bearing Stratifications:

Top	Bottom	Description
95	150	Sandstone/Gravel/Conglomerate
200	710	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
180	200
690	750

Meter Number:	16570	Meter Make:	MASTERMETER
Meter Serial Number:	6985354	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/01/2014	2014	123440	A	RPT		0
07/01/2014	2014	160772	A	RPT		11.457
10/01/2014	2014	193527	A	RPT		10.052
12/31/2014	2014	237836	A	RPT		13.598
02/01/2015	2015	247102	A	RPT		2.844
03/02/2015	2015	260095	A	RPT		3.987
04/01/2015	2015	268444	A	RPT		2.562
04/30/2015	2015	284991	A	RPT		5.078
05/31/2015	2015	296985	A	RPT		3.681
07/01/2015	2015	313077	A	RPT		4.938
08/01/2015	2015	321571	A	RPT		2.607
08/31/2015	2015	333738	A	RPT		3.734
10/01/2015	2015	340361	A	RPT		2.033

**YTD Meter Amounts:	Year	Amount
	2014	35.107
	2015	31.464

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.

8/2/21 12:17 PM POINT OF DIVERSION SUMMARY



[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

* IMPORTANT: [Next Generation Station Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320059103333501

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320059103333501 26S.33E.27.21112

Lea County, New Mexico

Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83

Land-surface elevation 3,252.00 feet above NGVD29

The depth of the well is 200 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source measu
1954-07-26		D	62610		3172.29	NGVD29	1	Z		
1954-07-26		D	62611		3173.87	NAVD88	1	Z		
1954-07-26		D	72019	79.71			1	Z		
1976-01-08		D	62610		3175.48	NGVD29	1	Z		
1976-01-08		D	62611		3177.06	NAVD88	1	Z		
1976-01-08		D	72019	76.52			1	Z		
1986-03-04		D	62610		3174.86	NGVD29	1	Z		
1986-03-04		D	62611		3176.44	NAVD88	1	Z		
1986-03-04		D	72019	77.14			1	Z		
1990-11-27		D	62610		3175.46	NGVD29	1	Z		
1990-11-27		D	62611		3177.04	NAVD88	1	Z		
1990-11-27		D	72019	76.54			1	Z		
1996-03-05		D	62610		3174.61	NGVD29	1	S		
1996-03-05		D	62611		3176.19	NAVD88	1	S		

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source
1996-03-05		D	72019	77.39			1	S		
2001-02-27		D	62610		3175.40	NGVD29	1	S		
2001-02-27		D	62611		3176.98	NAVD88	1	S		
2001-02-27		D	72019	76.60			1	S		

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=320059103333501&agency_cd=USGS&format=html



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

Page Last Modified: 2021-08-02 16:37:13 EDT

0.28 0.25 nadww01

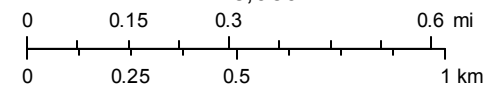


New Mexico NFHL Data



August 2, 2021

1:18,056





FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,


Medium Karst


OG Resources
attlesnake Pump Spill

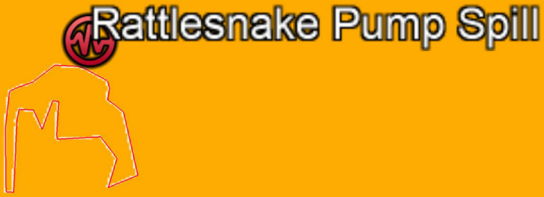
Legend

 High

 Low

 Medium

 Rattlesnake Pump Spill



Water Well Data
Average Depth to Groundwater (ft)
EOG Resources
Rattlesnake Pump Spill
Lea County, New Mexico

25 South			32 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
	290				

25 South			33 East		
6	5	4	3	172	2
7	118	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
190					

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	28	27	26	25
31	32	33	34	35	36
					260

26 South			32 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
295					

26 South			33 East		
6	5	4	3	180	2
7	8	9	106	10	11
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 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

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



Appendix C

Laboratory Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-4539-1

Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Rattlesnake Pump Spill

For:

Tetra Tech, Inc.
901 W Wall
Ste 100
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:
8/2/2021 10:49:00 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Laboratory Job ID: 880-4539-1
SDG: Lea County, New Mexico

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	16
QC Sample Results	18
QC Association Summary	25
Lab Chronicle	29
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	38

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Job ID: 880-4539-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4539-1

Receipt

The samples were received on 7/30/2021 1:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: AH-1 (0-1') (880-4539-1), AH-3 (0-1') (880-4539-3), AH-6 (0-1') (880-4539-6), AH-7 (0-1') (880-4539-7) and H-4 (0-0.5') (880-4539-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: Sample was inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-5886 and analytical batch 880-5944. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-4539-1

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 01:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 01:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	07/30/21 14:45	08/01/21 01:10	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/30/21 14:45	08/01/21 01:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 06:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 06:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 06:50	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/31/21 11:55	08/01/21 06:50	1
o-Terphenyl	92		70 - 130	07/31/21 11:55	08/01/21 06:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.8		4.95		mg/Kg			07/31/21 16:26	1

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-4539-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 01:31	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/30/21 14:45	08/01/21 01:31	1
1,4-Difluorobenzene (Surr)	112		70 - 130	07/30/21 14:45	08/01/21 01:31	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 11:14	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-4539-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	1710		49.9		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
Oil Range Organics (Over C28-C36)	223		49.9		mg/Kg		07/31/21 11:55	08/01/21 11:14	1
Total TPH	1930		49.9		mg/Kg		07/31/21 11:55	08/01/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	16	S1-	70 - 130	07/31/21 11:55	08/01/21 11:14	1
o-Terphenyl	21	S1-	70 - 130	07/31/21 11:55	08/01/21 11:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	435		5.02		mg/Kg			07/31/21 16:32	1

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-4539-3

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	08/01/21 02:52	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	08/01/21 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	07/30/21 14:45	08/01/21 02:52	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/30/21 14:45	08/01/21 02:52	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:32	1
Diesel Range Organics (Over C10-C28)	118		50.0		mg/Kg		07/31/21 11:55	08/01/21 07:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:32	1
Total TPH	118		50.0		mg/Kg		07/31/21 11:55	08/01/21 07:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	168	S1+	70 - 130	07/31/21 11:55	08/01/21 07:32	1
o-Terphenyl	182	S1+	70 - 130	07/31/21 11:55	08/01/21 07:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8720	F1	99.6		mg/Kg			07/31/21 16:37	20

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-4 (0-1')

Lab Sample ID: 880-4539-4

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 14:45	08/01/21 03:12	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 14:45	08/01/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/30/21 14:45	08/01/21 03:12	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 14:45	08/01/21 03:12	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
Diesel Range Organics (Over C10-C28)	110		50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1
Total TPH	110		50.0		mg/Kg		07/31/21 11:55	08/01/21 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130	07/31/21 11:55	08/01/21 07:53	1
o-Terphenyl	75		70 - 130	07/31/21 11:55	08/01/21 07:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42800		253		mg/Kg			07/31/21 16:53	50

Client Sample ID: AH-5 (0-1')

Lab Sample ID: 880-4539-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:33	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130	07/30/21 14:45	08/01/21 03:33	1
1,4-Difluorobenzene (Surr)	104		70 - 130	07/30/21 14:45	08/01/21 03:33	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:24	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (0-1')

Lab Sample ID: 880-4539-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:24	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/31/21 11:55	08/01/21 08:24	1
o-Terphenyl	88		70 - 130				07/31/21 11:55	08/01/21 08:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1820		24.9		mg/Kg			07/31/21 16:59	5

Client Sample ID: AH-6 (0-1')

Lab Sample ID: 880-4539-6

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
Toluene	0.00306		0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:45	08/01/21 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/30/21 14:45	08/01/21 03:53	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/30/21 14:45	08/01/21 03:53	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:45	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 08:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				07/31/21 11:55	08/01/21 08:45	1
o-Terphenyl	76		70 - 130				07/31/21 11:55	08/01/21 08:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2080		24.9		mg/Kg			07/31/21 17:15	5

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-4539-7

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
Toluene	0.00253		0.00198		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/30/21 14:45	08/01/21 04:13	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		07/30/21 14:45	08/01/21 04:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	07/30/21 14:45	08/01/21 04:13	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/30/21 14:45	08/01/21 04:13	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 09:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	07/31/21 11:55	08/01/21 09:07	1
o-Terphenyl	79		70 - 130	07/31/21 11:55	08/01/21 09:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3670		24.8		mg/Kg			07/31/21 17:20	5

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-4539-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:34	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	07/30/21 16:00	08/01/21 04:34	1
1,4-Difluorobenzene (Surr)	99		70 - 130	07/30/21 16:00	08/01/21 04:34	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-4539-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	53.6		50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
Total TPH	53.6		50.0		mg/Kg		07/31/21 11:55	08/01/21 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				07/31/21 11:55	08/01/21 09:28	1
o-Terphenyl	79		70 - 130				07/31/21 11:55	08/01/21 09:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	192		4.95		mg/Kg			07/31/21 17:26	1

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-4539-9

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 16:00	08/01/21 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				07/30/21 16:00	08/01/21 04:54	1
1,4-Difluorobenzene (Surr)	90		70 - 130				07/30/21 16:00	08/01/21 04:54	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				07/31/21 11:55	08/01/21 09:49	1
o-Terphenyl	94		70 - 130				07/31/21 11:55	08/01/21 09:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.8		4.99		mg/Kg			07/31/21 17:31	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-4539-10

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 16:00	08/01/21 05:15	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 16:00	08/01/21 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	07/30/21 16:00	08/01/21 05:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/30/21 16:00	08/01/21 05:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
Diesel Range Organics (Over C10-C28)	241		49.9		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
Oil Range Organics (Over C28-C36)	80.6		49.9		mg/Kg		07/31/21 11:55	08/01/21 10:10	1
Total TPH	322		49.9		mg/Kg		07/31/21 11:55	08/01/21 10:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/31/21 11:55	08/01/21 10:10	1
o-Terphenyl	88		70 - 130	07/31/21 11:55	08/01/21 10:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	689		5.04		mg/Kg			07/31/21 17:36	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-4539-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
Toluene	0.00298		0.00201		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 16:00	08/01/21 05:35	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 16:00	08/01/21 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	07/30/21 16:00	08/01/21 05:35	1
1,4-Difluorobenzene (Surr)	84		70 - 130	07/30/21 16:00	08/01/21 05:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:31	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-4539-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	57.0		50.0		mg/Kg		07/31/21 11:55	08/01/21 10:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:31	1
Total TPH	57.0		50.0		mg/Kg		07/31/21 11:55	08/01/21 10:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				07/31/21 11:55	08/01/21 10:31	1
o-Terphenyl	86		70 - 130				07/31/21 11:55	08/01/21 10:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	343		4.98		mg/Kg			07/31/21 17:42	1

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-4539-12

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 16:00	08/01/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				07/30/21 16:00	08/01/21 05:55	1
1,4-Difluorobenzene (Surr)	92		70 - 130				07/30/21 16:00	08/01/21 05:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 11:55	08/01/21 10:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				07/31/21 11:55	08/01/21 10:53	1
o-Terphenyl	73		70 - 130				07/31/21 11:55	08/01/21 10:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	404		5.00		mg/Kg			07/31/21 17:47	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-4539-13

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 15:00	08/01/21 02:14	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 15:00	08/01/21 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	07/30/21 15:00	08/01/21 02:14	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/30/21 15:00	08/01/21 02:14	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 17:46	1
Diesel Range Organics (Over C10-C28)	87.8		50.0		mg/Kg		07/31/21 10:49	08/01/21 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 17:46	1
Total TPH	87.8		50.0		mg/Kg		07/31/21 10:49	08/01/21 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/31/21 10:49	08/01/21 17:46	1
o-Terphenyl	97		70 - 130	07/31/21 10:49	08/01/21 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.95		mg/Kg			07/31/21 20:40	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-4539-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
Toluene	0.00757		0.00200		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
Ethylbenzene	0.00619		0.00200		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
m-Xylene & p-Xylene	0.00757		0.00400		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
o-Xylene	0.00266		0.00200		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
Xylenes, Total	0.0102		0.00400		mg/Kg		07/30/21 15:00	08/01/21 02:35	1
Total BTEX	0.0240		0.00400		mg/Kg		07/30/21 15:00	08/01/21 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130	07/30/21 15:00	08/01/21 02:35	1
1,4-Difluorobenzene (Surr)	85		70 - 130	07/30/21 15:00	08/01/21 02:35	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 18:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-4539-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	126		49.9		mg/Kg		07/31/21 10:49	08/01/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 18:06	1
Total TPH	126		49.9		mg/Kg		07/31/21 10:49	08/01/21 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				07/31/21 10:49	08/01/21 18:06	1
o-Terphenyl	105		70 - 130				07/31/21 10:49	08/01/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.0		4.95		mg/Kg			07/31/21 20:45	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-4539-15

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 02:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				07/30/21 15:00	08/01/21 02:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/21 15:00	08/01/21 02:55	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 18:48	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				07/31/21 10:49	08/01/21 18:48	1
o-Terphenyl	103		70 - 130				07/31/21 10:49	08/01/21 18:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		5.02		mg/Kg			07/31/21 20:50	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-4539-16

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 03:16	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 15:00	08/01/21 03:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/30/21 15:00	08/01/21 03:16	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 15:00	08/01/21 03:16	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 19:09	1
Diesel Range Organics (Over C10-C28)	54.3		50.0		mg/Kg		07/31/21 10:49	08/01/21 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 19:09	1
Total TPH	54.3		50.0		mg/Kg		07/31/21 10:49	08/01/21 19:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/31/21 10:49	08/01/21 19:09	1
o-Terphenyl	94		70 - 130	07/31/21 10:49	08/01/21 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		4.98		mg/Kg			07/31/21 20:56	1

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-4538-A-31-C MS	Matrix Spike	118	107
880-4538-A-31-D MSD	Matrix Spike Duplicate	116	111
880-4539-1	AH-1 (0-1')	137 S1+	104
880-4539-2	AH-2 (0-1')	107	112
880-4539-3	AH-3 (0-1')	133 S1+	103
880-4539-4	AH-4 (0-1')	119	94
880-4539-5	AH-5 (0-1')	142 S1+	104
880-4539-6	AH-6 (0-1')	128	88
880-4539-7	AH-7 (0-1')	133 S1+	95
880-4539-8	H-1 (0-0.5')	130	99
880-4539-9	H-2 (0-0.5')	128	90
880-4539-10	H-3 (0-0.5')	127	89
880-4539-11	H-4 (0-0.5')	98	84
880-4539-12	H-5 (0-0.5')	122	92
880-4539-13	H-6 (0-0.5')	121	90
880-4539-13 MS	H-6 (0-0.5')	102	92
880-4539-13 MSD	H-6 (0-0.5')	103	88
880-4539-14	H-7 (0-0.5')	174 S1+	85
880-4539-15	H-8 (0-0.5')	114	96
880-4539-16	H-9 (0-0.5')	119	93
LCS 880-5890/1-A	Lab Control Sample	98	91
LCS 880-5892/1-A	Lab Control Sample	117	109
LCSD 880-5890/2-A	Lab Control Sample Dup	98	91
LCSD 880-5892/2-A	Lab Control Sample Dup	124	107
MB 880-5841/5-A	Method Blank	113	95
MB 880-5842/5-A	Method Blank	110	94
MB 880-5890/5-A	Method Blank	119	90
MB 880-5892/5-A	Method Blank	129	92
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-4538-A-31-H MS	Matrix Spike	99	92
880-4538-A-31-I MSD	Matrix Spike Duplicate	99	93
880-4539-1	AH-1 (0-1')	90	92
880-4539-2	AH-2 (0-1')	16 S1-	21 S1-
880-4539-3	AH-3 (0-1')	168 S1+	182 S1+
880-4539-4	AH-4 (0-1')	70	75
880-4539-5	AH-5 (0-1')	83	88
880-4539-6	AH-6 (0-1')	73	76
880-4539-7	AH-7 (0-1')	78	79
880-4539-8	H-1 (0-0.5')	82	79
880-4539-9	H-2 (0-0.5')	91	94

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 880-4539-1

Project/Site: Rattlesnake Pump Spill

SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-4539-10	H-3 (0-0.5')	85	88
880-4539-11	H-4 (0-0.5')	83	86
880-4539-12	H-5 (0-0.5')	71	73
880-4539-13	H-6 (0-0.5')	92	97
880-4539-14	H-7 (0-0.5')	101	105
880-4539-15	H-8 (0-0.5')	101	103
880-4539-16	H-9 (0-0.5')	87	94
LCS 880-5924/2-A	Lab Control Sample	100	107
LCSD 880-5924/3-A	Lab Control Sample Dup	108	115
MB 880-5924/1-A	Method Blank	92	111
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-5841/5-A

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/21 16:47	07/31/21 14:10	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/29/21 16:47	07/31/21 14:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	07/29/21 16:47	07/31/21 14:10	1
1,4-Difluorobenzene (Surr)	95		70 - 130	07/29/21 16:47	07/31/21 14:10	1

Lab Sample ID: MB 880-5842/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/21 16:50	07/31/21 11:13	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/29/21 16:50	07/31/21 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/29/21 16:50	07/31/21 11:13	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/29/21 16:50	07/31/21 11:13	1

Lab Sample ID: MB 880-5890/5-A

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 15:00	08/01/21 01:46	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 15:00	08/01/21 01:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/30/21 15:00	08/01/21 01:46	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/30/21 15:00	08/01/21 01:46	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-5890/1-A

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09037		mg/Kg		90	70 - 130
Toluene	0.100	0.1104		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.2151		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-5890/2-A

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5890

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09374		mg/Kg		94	70 - 130	4	35
Toluene	0.100	0.1098		mg/Kg		110	70 - 130	1	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2184		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1030		mg/Kg		103	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 880-4539-13 MS

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: H-6 (0-0.5')

Prep Type: Total/NA

Prep Batch: 5890

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0998	0.08966		mg/Kg		90	70 - 130
Toluene	<0.00201	U	0.0998	0.1045		mg/Kg		105	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.09470		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1910		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U	0.0998	0.09009		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-4539-13 MSD

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: H-6 (0-0.5')

Prep Type: Total/NA

Prep Batch: 5890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08114		mg/Kg		81	70 - 130	10	35
Toluene	<0.00201	U	0.0996	0.09558		mg/Kg		96	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.0996	0.08856		mg/Kg		88	70 - 130	7	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-4539-13 MSD

Matrix: Solid

Analysis Batch: 5877

Client Sample ID: H-6 (0-0.5')

Prep Type: Total/NA

Prep Batch: 5890

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1794		mg/Kg		89	70 - 130	6	35
o-Xylene	<0.00201	U	0.0996	0.08528		mg/Kg		85	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: MB 880-5892/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5892

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	07/31/21 22:05	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	07/31/21 22:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	07/30/21 14:45	07/31/21 22:05	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 14:45	07/31/21 22:05	1

Lab Sample ID: LCS 880-5892/1-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1135		mg/Kg		113	70 - 130
Toluene	0.100	0.1101		mg/Kg		110	70 - 130
Ethylbenzene	0.100	0.09776		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2011		mg/Kg		101	70 - 130
o-Xylene	0.100	0.09267		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-5892/2-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1155		mg/Kg		116	70 - 130	2	35
Toluene	0.100	0.1131		mg/Kg		113	70 - 130	3	35
Ethylbenzene	0.100	0.1031		mg/Kg		103	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130	5	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-5892/2-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	8	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	124		70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: 880-4538-A-31-C MS

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07484		mg/Kg		75	70 - 130		
Toluene	<0.00199	U	0.100	0.07205		mg/Kg		71	70 - 130		
Ethylbenzene	<0.00199	U F1	0.100	0.05820	F1	mg/Kg		58	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1179	F1	mg/Kg		59	70 - 130		
o-Xylene	<0.00199	U F1	0.100	0.05426	F1	mg/Kg		54	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	118		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								

Lab Sample ID: 880-4538-A-31-D MSD

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08776		mg/Kg		88	70 - 130	16	35
Toluene	<0.00199	U	0.0996	0.08270		mg/Kg		82	70 - 130	14	35
Ethylbenzene	<0.00199	U F1	0.0996	0.06933		mg/Kg		70	70 - 130	17	35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1423		mg/Kg		71	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.0996	0.07231		mg/Kg		73	70 - 130	29	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	116		70 - 130								
1,4-Difluorobenzene (Surr)	111		70 - 130								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-5924/1-A

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5924

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 13:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 13:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 13:13	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 13:13	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	07/31/21 10:49	08/01/21 13:13	1
o-Terphenyl	111		70 - 130	07/31/21 10:49	08/01/21 13:13	1

Lab Sample ID: LCS 880-5924/2-A

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5924

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.2		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-5924/3-A

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 5924

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.4		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1119		mg/Kg		112	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 880-4538-A-31-H MS

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 5924

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	954.8		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	55.3		996	1127		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 880-4538-A-31-I MSD

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	971.9		mg/Kg		95	70 - 130	2	20

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-4538-A-31-I MSD

Matrix: Solid

Analysis Batch: 5934

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 5924

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	55.3		996	1143		mg/Kg		109	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5886/1-A

Matrix: Solid

Analysis Batch: 5944

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/31/21 15:05	1

Lab Sample ID: LCS 880-5886/2-A

Matrix: Solid

Analysis Batch: 5944

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.6		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-5886/3-A

Matrix: Solid

Analysis Batch: 5944

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	239.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-4539-3 MS

Matrix: Solid

Analysis Batch: 5944

Client Sample ID: AH-3 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8720	F1	4980	5075	F1	mg/Kg		-73	90 - 110

Lab Sample ID: 880-4539-3 MSD

Matrix: Solid

Analysis Batch: 5944

Client Sample ID: AH-3 (0-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8720	F1	4980	5084	F1	mg/Kg		-73	90 - 110	0	20

Lab Sample ID: MB 880-5894/1-A

Matrix: Solid

Analysis Batch: 5945

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/31/21 18:14	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-5894/2-A

Matrix: Solid

Analysis Batch: 5945

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	241.7		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-5894/3-A

Matrix: Solid

Analysis Batch: 5945

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	241.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-4538-A-11-C MS

Matrix: Solid

Analysis Batch: 5945

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	302		250	552.4		mg/Kg		100	90 - 110

Lab Sample ID: 880-4538-A-11-D MSD

Matrix: Solid

Analysis Batch: 5945

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	302		250	553.9		mg/Kg		101	90 - 110	0	20

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 5841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5841/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 5842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5842/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 5858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Total/NA	Solid	8021B	5892
880-4539-2	AH-2 (0-1')	Total/NA	Solid	8021B	5892
880-4539-3	AH-3 (0-1')	Total/NA	Solid	8021B	5892
880-4539-4	AH-4 (0-1')	Total/NA	Solid	8021B	5892
880-4539-5	AH-5 (0-1')	Total/NA	Solid	8021B	5892
880-4539-6	AH-6 (0-1')	Total/NA	Solid	8021B	5892
880-4539-7	AH-7 (0-1')	Total/NA	Solid	8021B	5892
880-4539-8	H-1 (0-0.5')	Total/NA	Solid	8021B	5892
880-4539-9	H-2 (0-0.5')	Total/NA	Solid	8021B	5892
880-4539-10	H-3 (0-0.5')	Total/NA	Solid	8021B	5892
880-4539-11	H-4 (0-0.5')	Total/NA	Solid	8021B	5892
880-4539-12	H-5 (0-0.5')	Total/NA	Solid	8021B	5892
MB 880-5842/5-A	Method Blank	Total/NA	Solid	8021B	5842
MB 880-5892/5-A	Method Blank	Total/NA	Solid	8021B	5892
LCS 880-5892/1-A	Lab Control Sample	Total/NA	Solid	8021B	5892
LCSD 880-5892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5892
880-4538-A-31-C MS	Matrix Spike	Total/NA	Solid	8021B	5892
880-4538-A-31-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	5892

Analysis Batch: 5877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Total/NA	Solid	8021B	5890
880-4539-14	H-7 (0-0.5')	Total/NA	Solid	8021B	5890
880-4539-15	H-8 (0-0.5')	Total/NA	Solid	8021B	5890
880-4539-16	H-9 (0-0.5')	Total/NA	Solid	8021B	5890
MB 880-5841/5-A	Method Blank	Total/NA	Solid	8021B	5841
MB 880-5890/5-A	Method Blank	Total/NA	Solid	8021B	5890
LCS 880-5890/1-A	Lab Control Sample	Total/NA	Solid	8021B	5890
LCSD 880-5890/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5890
880-4539-13 MS	H-6 (0-0.5')	Total/NA	Solid	8021B	5890
880-4539-13 MSD	H-6 (0-0.5')	Total/NA	Solid	8021B	5890

Prep Batch: 5890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Total/NA	Solid	5035	
880-4539-14	H-7 (0-0.5')	Total/NA	Solid	5035	
880-4539-15	H-8 (0-0.5')	Total/NA	Solid	5035	
880-4539-16	H-9 (0-0.5')	Total/NA	Solid	5035	
MB 880-5890/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5890/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5890/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4539-13 MS	H-6 (0-0.5')	Total/NA	Solid	5035	
880-4539-13 MSD	H-6 (0-0.5')	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 5892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Total/NA	Solid	5035	
880-4539-2	AH-2 (0-1')	Total/NA	Solid	5035	
880-4539-3	AH-3 (0-1')	Total/NA	Solid	5035	
880-4539-4	AH-4 (0-1')	Total/NA	Solid	5035	
880-4539-5	AH-5 (0-1')	Total/NA	Solid	5035	
880-4539-6	AH-6 (0-1')	Total/NA	Solid	5035	
880-4539-7	AH-7 (0-1')	Total/NA	Solid	5035	
880-4539-8	H-1 (0-0.5')	Total/NA	Solid	5035	
880-4539-9	H-2 (0-0.5')	Total/NA	Solid	5035	
880-4539-10	H-3 (0-0.5')	Total/NA	Solid	5035	
880-4539-11	H-4 (0-0.5')	Total/NA	Solid	5035	
880-4539-12	H-5 (0-0.5')	Total/NA	Solid	5035	
MB 880-5892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-5892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4538-A-31-C MS	Matrix Spike	Total/NA	Solid	5035	
880-4538-A-31-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 5917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-2	AH-2 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-3	AH-3 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-4	AH-4 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-5	AH-5 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-6	AH-6 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-7	AH-7 (0-1')	Total/NA	Solid	8015B NM	5927
880-4539-8	H-1 (0-0.5')	Total/NA	Solid	8015B NM	5927
880-4539-9	H-2 (0-0.5')	Total/NA	Solid	8015B NM	5927
880-4539-10	H-3 (0-0.5')	Total/NA	Solid	8015B NM	5927
880-4539-11	H-4 (0-0.5')	Total/NA	Solid	8015B NM	5927
880-4539-12	H-5 (0-0.5')	Total/NA	Solid	8015B NM	5927

Prep Batch: 5924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-14	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-15	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-16	H-9 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-5924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-5924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4538-A-31-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-4538-A-31-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 5927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-2	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 5927 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-3	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-4	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-5	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-6	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-7	AH-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-4539-8	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-9	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-10	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-11	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-4539-12	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Total/NA	Solid	8015B NM	5924
880-4539-14	H-7 (0-0.5')	Total/NA	Solid	8015B NM	5924
880-4539-15	H-8 (0-0.5')	Total/NA	Solid	8015B NM	5924
880-4539-16	H-9 (0-0.5')	Total/NA	Solid	8015B NM	5924
MB 880-5924/1-A	Method Blank	Total/NA	Solid	8015B NM	5924
LCS 880-5924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5924
LCSD 880-5924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5924
880-4538-A-31-H MS	Matrix Spike	Total/NA	Solid	8015B NM	5924
880-4538-A-31-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	5924

HPLC/IC

Leach Batch: 5886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4539-2	AH-2 (0-1')	Soluble	Solid	DI Leach	
880-4539-3	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4539-4	AH-4 (0-1')	Soluble	Solid	DI Leach	
880-4539-5	AH-5 (0-1')	Soluble	Solid	DI Leach	
880-4539-6	AH-6 (0-1')	Soluble	Solid	DI Leach	
880-4539-7	AH-7 (0-1')	Soluble	Solid	DI Leach	
880-4539-8	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-9	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-10	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-11	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-12	H-5 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-5886/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5886/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5886/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4539-3 MS	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4539-3 MSD	AH-3 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 5894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-14	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-15	H-8 (0-0.5')	Soluble	Solid	DI Leach	
880-4539-16	H-9 (0-0.5')	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 5894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-5894/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5894/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5894/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4538-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-4538-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 5944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-1	AH-1 (0-1')	Soluble	Solid	300.0	5886
880-4539-2	AH-2 (0-1')	Soluble	Solid	300.0	5886
880-4539-3	AH-3 (0-1')	Soluble	Solid	300.0	5886
880-4539-4	AH-4 (0-1')	Soluble	Solid	300.0	5886
880-4539-5	AH-5 (0-1')	Soluble	Solid	300.0	5886
880-4539-6	AH-6 (0-1')	Soluble	Solid	300.0	5886
880-4539-7	AH-7 (0-1')	Soluble	Solid	300.0	5886
880-4539-8	H-1 (0-0.5')	Soluble	Solid	300.0	5886
880-4539-9	H-2 (0-0.5')	Soluble	Solid	300.0	5886
880-4539-10	H-3 (0-0.5')	Soluble	Solid	300.0	5886
880-4539-11	H-4 (0-0.5')	Soluble	Solid	300.0	5886
880-4539-12	H-5 (0-0.5')	Soluble	Solid	300.0	5886
MB 880-5886/1-A	Method Blank	Soluble	Solid	300.0	5886
LCS 880-5886/2-A	Lab Control Sample	Soluble	Solid	300.0	5886
LCSD 880-5886/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5886
880-4539-3 MS	AH-3 (0-1')	Soluble	Solid	300.0	5886
880-4539-3 MSD	AH-3 (0-1')	Soluble	Solid	300.0	5886

Analysis Batch: 5945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4539-13	H-6 (0-0.5')	Soluble	Solid	300.0	5894
880-4539-14	H-7 (0-0.5')	Soluble	Solid	300.0	5894
880-4539-15	H-8 (0-0.5')	Soluble	Solid	300.0	5894
880-4539-16	H-9 (0-0.5')	Soluble	Solid	300.0	5894
MB 880-5894/1-A	Method Blank	Soluble	Solid	300.0	5894
LCS 880-5894/2-A	Lab Control Sample	Soluble	Solid	300.0	5894
LCSD 880-5894/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5894
880-4538-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	5894
880-4538-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	5894

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-1 (0-1')

Lab Sample ID: 880-4539-1

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 01:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 06:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 16:26	CH	XEN MID

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-4539-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 01:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 11:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 16:32	CH	XEN MID

Client Sample ID: AH-3 (0-1')

Lab Sample ID: 880-4539-3

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 02:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 07:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		20			5944	07/31/21 16:37	CH	XEN MID

Client Sample ID: AH-4 (0-1')

Lab Sample ID: 880-4539-4

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 03:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 07:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		50			5944	07/31/21 16:53	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (0-1')

Lab Sample ID: 880-4539-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 03:33	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 08:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		5			5944	07/31/21 16:59	CH	XEN MID

Client Sample ID: AH-6 (0-1')

Lab Sample ID: 880-4539-6

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 03:53	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 08:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		5			5944	07/31/21 17:15	CH	XEN MID

Client Sample ID: AH-7 (0-1')

Lab Sample ID: 880-4539-7

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 04:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 09:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		5			5944	07/31/21 17:20	CH	XEN MID

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-4539-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5892	07/30/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 04:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 09:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 17:26	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-4539-9

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5892	07/30/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 04:54	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 09:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 17:31	CH	XEN MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-4539-10

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	5892	07/30/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 05:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 10:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 17:36	CH	XEN MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-4539-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5892	07/30/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 05:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 10:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 17:42	CH	XEN MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-4539-12

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	5892	07/30/21 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 05:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5927	07/31/21 11:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5917	08/01/21 10:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	5886	07/30/21 14:00	CH	XEN MID
Soluble	Analysis	300.0		1			5944	07/31/21 17:47	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-4539-13

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	5890	07/30/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5877	08/01/21 02:14	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 20:40	CH	XEN MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-4539-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	5890	07/30/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5877	08/01/21 02:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 20:45	CH	XEN MID

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-4539-15

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5890	07/30/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5877	08/01/21 02:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 18:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 20:50	CH	XEN MID

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-4539-16

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	5890	07/30/21 15:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5877	08/01/21 03:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 20:56	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

- 1
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- 14

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Midland

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Rattlesnake Pump Spill

Job ID: 880-4539-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-4539-1	AH-1 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-2	AH-2 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-3	AH-3 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-4	AH-4 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-5	AH-5 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-6	AH-6 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-7	AH-7 (0-1')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-8	H-1 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-9	H-2 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-10	H-3 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-11	H-4 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-12	H-5 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-13	H-6 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-14	H-7 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-15	H-8 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41
880-4539-16	H-9 (0-0.5')	Solid	07/29/21 00:00	07/30/21 13:41

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Analysis Request of Chain of Custody Record

**Tetra Tech, Inc.**901 W Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-4539 Chain of Custody

Page 1 of 2
880-4539

8/2/2021

Client Name		EOG Resources		Site Manager		Brittany Long	
Project Name		Rattlesnake Pump Spill		Project #		212C-MD-02560	
Project Location (county, state)		Lea County, New Mexico		Invoice to		Galan Kelley	
Receiving Laboratory		Eurofins		Sampler Signature		Marvin Dunbar	
Comments							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃					ICE
AH-1 (0-1')		7/29/2021		X		X			1	X		
AH-2 (0-1')		7/29/2021		X		X			1	X		
AH-3 (0-1')		7/29/2021		X		X			1	X		
AH-4 (0-1')		7/29/2021		X		X			1	X		
AH-5 (0-1')		7/29/2021		X		X			1	X		
AH-6 (0-1')		7/29/2021		X		X			1	X		
AH-7 (0-1')		7/29/2021		X		X			1	X		
H-1 (0-0.5')		7/29/2021		X		X			1	X		
H-2 (0-0.5')		7/29/2021		X		X			1	X		
H-3 (0-0.5')		7/29/2021		X		X			1	X		

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	7/30/21	1315	Received by		
Relinquished by			Received by		

Relinquished by	Date	Time	Received by	Date	Time
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LAB USE ONLY	REMARKS
<input checked="" type="checkbox"/> RUSH Same Day <input type="checkbox"/> Push Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	(Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol 8260B / 624 GC/MS Semi Vol 8270C/625 PCB s 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold

ORIGINAL COPY

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-4539-1

SDG Number: Lea County, New Mexico

Login Number: 4539

List Number: 1

Creator: Teel, Brianna

List Source: Eurofins Xenco, Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



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

August 28, 2021

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: RATTLESNAKE PUMP RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/26/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/26/2021	Sampling Date:	08/23/2021
Reported:	08/28/2021	Sampling Type:	Soil
Project Name:	RATTLESNAKE PUMP RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02560	Sample Received By:	Tamara Oldaker
Project Location:	EOG RESOURCES - LEA CO NM		

Sample ID: TRENCH - 1 (0-1') (H212305-01)

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	08/27/2021	ND	1.99	99.5	2.00	5.84		
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43		
Total BTEX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	2310	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	795	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 138 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (1') (H212305-02)

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	08/27/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43	
Total BTX	<0.300	0.300	08/27/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/27/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	986	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	369	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (2') (H212305-03)

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	08/27/2021	ND	1.99	99.5	2.00	5.84		
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	371	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	146	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.4 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (3') (H212305-04)

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	08/27/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43	
Total BTX	<0.300	0.300	08/27/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/27/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	19.7	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.8 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (4') (H212305-05)

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	08/27/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.1 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 1 (5') (H212305-06)

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	08/27/2021	ND	1.99	99.5	2.00	5.84	
Toluene*	<0.050	0.050	08/27/2021	ND	1.99	99.4	2.00	5.28	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.00	100	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.05	101	6.00	3.43	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	199	99.5	200	1.74	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	217	108	200	1.98	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 2 (0-1') (H212305-07)

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	08/26/2021	ND	2.02	101	2.00	4.17	QR-03	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.3 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 2 (1') (H212305-08)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/26/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.0 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 2 (2') (H212305-09)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTX	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1860	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 2 (3.5') (H212305-10)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/26/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.5 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 2 (5') (H212305-11)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTX	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.7 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 3 (0-1') (H212305-12)

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	08/26/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16	
Total BTEX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 3 (1') (H212305-13)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	08/27/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/26/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/26/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 3 (2') (H212305-14)

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	08/26/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/26/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	30.9	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	25.9	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.5 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 3 (3') (H212305-15)

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	08/26/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.1 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (0-1') (H212305-16)

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	08/26/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16		
Total BTX	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/27/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.5 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (1') (H212305-17)

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	08/26/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (2') (H212305-18)

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	08/26/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/26/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/26/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/26/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (3') (H212305-19)

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	08/27/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (4') (H212305-20)

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	08/27/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16	
Total BTEx	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 4 (5') (H212305-21)

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	08/27/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 5 (0-1') (H212305-22)

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	08/27/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.8 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 5 (1') (H212305-23)

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	08/27/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 5 (2') (H212305-24)

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	08/27/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/27/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 72.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 5 (3') (H212305-25)

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	08/27/2021	ND	2.02	101	2.00	4.17	
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.1 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 6 (0-1') (H212305-26)

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	08/27/2021	ND	2.02	101	2.00	4.17		
Toluene*	<0.050	0.050	08/27/2021	ND	2.14	107	2.00	5.88		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.08	104	2.00	6.10		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.41	107	6.00	6.16		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	192	96.0	200	14.1	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	191	95.7	200	6.54	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 73.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 6 (1') (H212305-27)

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	08/26/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/26/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/27/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	QM-07
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 6 (2') (H212305-28)

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	08/26/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/26/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 7 (0-1') (H212305-29)

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	08/26/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/26/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/26/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	1220	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	302	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 7 (1') (H212305-30)

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	08/26/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/26/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/26/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/26/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/26/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.5 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 7 (2') (H212305-31)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 7 (3') (H212305-32)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/27/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (0-1') (H212305-33)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (1') (H212305-34)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	08/27/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (2') (H212305-35)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEX	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1720	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (3') (H212305-36)

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	08/27/2021	ND	1.77	88.6	2.00	5.64	
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	08/27/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.6 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (4') (H212305-37)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	08/27/2021	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (6') (H212305-38)

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	08/27/2021	ND	1.77	88.6	2.00	5.64	
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60	
Total BTEX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.0 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (8') (H212305-39)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 8 (9') (H212305-40)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 9 (0-1') (H212305-41)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 9 (1') (H212305-42)

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	08/27/2021	ND	1.77	88.6	2.00	5.64	
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 9 (2') (H212305-43)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 93.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (0-1') (H212305-44)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 71.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (1') (H212305-45)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1810	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (2') (H212305-46)

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	08/27/2021	ND	1.77	88.6	2.00	5.64		
Toluene*	<0.050	0.050	08/27/2021	ND	1.90	95.1	2.00	6.07		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.85	92.7	2.00	5.95		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.63	93.9	6.00	5.60		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	194	97.2	200	6.21	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	195	97.5	200	8.65	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (3') (H212305-47)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEX	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (4') (H212305-48)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (5') (H212305-49)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 72.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 10 (6') (H212305-50)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (0-1') (H212305-51)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (1') (H212305-52)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.4 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (2') (H212305-53)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.8 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (3') (H212305-54)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.6 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (4') (H212305-55)

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	08/27/2021	ND	1.98	99.1	2.00	5.92	
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00	
Total BTEx	<0.300	0.300	08/27/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (5') (H212305-56)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	08/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.6 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (6') (H212305-57)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	08/27/2021	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (9') (H212305-58)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 83.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.4 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
 Reported: 08/28/2021
 Project Name: RATTLESNAKE PUMP RELEASE
 Project Number: 212C - MD - 02560
 Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (10') (H212305-59)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (12') (H212305-60)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (16') (H212305-61)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.1 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 11 (17') (H212305-62)

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	08/27/2021	ND	1.98	99.1	2.00	5.92	
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51	
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50	
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00	
Total BTX	<0.300	0.300	08/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 12 (0-1') (H212305-63)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/27/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/27/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/27/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/27/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.8 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 12 (1') (H212305-64)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 12 (2') (H212305-65)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 13 (0-1') (H212305-66)

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	08/27/2021	ND	1.98	99.1	2.00	5.92		
Toluene*	<0.050	0.050	08/27/2021	ND	2.11	105	2.00	3.51		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	2.04	102	2.00	3.50		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	6.23	104	6.00	4.00		
Total BTEx	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	184	91.9	200	6.11	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	197	98.6	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 70.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.7 % 38.9-142

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Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 13 (1') (H212305-67)

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	08/27/2021	ND	1.80	89.9	2.00	6.46		
Toluene*	<0.050	0.050	08/27/2021	ND	1.94	97.1	2.00	5.90		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.87	93.7	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.66	94.4	6.00	5.49		
Total BTEx	<0.300	0.300	08/27/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	194	97.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	193	96.6	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 73.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 13 (2') (H212305-68)

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	08/27/2021	ND	1.80	89.9	2.00	6.46		
Toluene*	<0.050	0.050	08/27/2021	ND	1.94	97.1	2.00	5.90		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.87	93.7	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.66	94.4	6.00	5.49		
Total BTEX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	194	97.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	193	96.6	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/26/2021
Reported: 08/28/2021
Project Name: RATTLESNAKE PUMP RELEASE
Project Number: 212C - MD - 02560
Project Location: EOG RESOURCES - LEA CO NM

Sampling Date: 08/23/2021
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TRENCH - 13 (4') (H212305-69)

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	08/27/2021	ND	1.80	89.9	2.00	6.46		
Toluene*	<0.050	0.050	08/27/2021	ND	1.94	97.1	2.00	5.90		
Ethylbenzene*	<0.050	0.050	08/27/2021	ND	1.87	93.7	2.00	5.69		
Total Xylenes*	<0.150	0.150	08/27/2021	ND	5.66	94.4	6.00	5.49		
Total BTX	<0.300	0.300	08/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/27/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2021	ND	194	97.1	200	2.65	
DRO >C10-C28*	<10.0	10.0	08/28/2021	ND	193	96.6	200	1.21	
EXT DRO >C28-C36	<10.0	10.0	08/28/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.8 % 38.9-142

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 2 of 2

Page 73 of 78

Client Name:

EOG Resources

Site Manager:

Brittany Long

Project Name:

Rattlesnake Pump Release

Project Location:

Lea County, New Mexico

Project #:

212C-MD-02560

Invoice to:

EOG/ ATTN: Kevin Black

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Ezequiel Moreno Flores

Comments:

SAMPLE IDENTIFICATION

LAB #

LAB USE ONLY

YEAR	DATE	TIME	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
			WATER	SOIL	HCL	HNO ₃	ICE					

11	Trench-2 (5)	8/23/2021		X			X				1	
12	Trench-3 (0-1')	8/23/2021		X			X				1	
13	Trench-3 (1')	8/23/2021		X			X				1	
14	Trench-3 (2')	8/23/2021		X			X				1	
15	Trench-3 (3')	8/23/2021		X			X				1	
16	Trench-4 (0-1')	8/23/2021		X			X				1	
17	Trench-4 (1')	8/23/2021		X			X				1	
18	Trench-4 (2')	8/23/2021		X			X				1	
19	Trench-4 (3')	8/23/2021		X			X				1	
20	Trench-4 (4')	8/23/2021		X			X				1	

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

REMARKS:

LAB USE ONLY

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 3 of 7

Page 74 of 78

Client Name: EOG Resources		Site Manager: Brittany Long	
Project Name: Rattlesnake Pump Release		Project #: 212C-MD-02560	
Project Location: Lea County, New Mexico		Project #: 212C-MD-02560	
Invoice to: EOG/ ATTN: Kevin Black		Sampler Signature: Ezequiel Moreno Flores	
Receiving Laboratory: Cardinal Labs		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
									YEAR			
21	Trench-4 (5')	8/23/2021		X				X			1	
22	Trench-5 (0-1')	8/23/2021		X				X			1	
23	Trench-5 (1')	8/23/2021		X				X			1	
24	Trench-5 (2')	8/23/2021		X				X			1	
25	Trench-5 (3')	8/23/2021		X				X			1	
26	Trench-6 (0-1')	8/23/2021		X				X			1	
27	Trench-6 (1')	8/23/2021		X				X			1	
28	Trench-6 (2')	8/23/2021		X				X			1	
29	Trench-7 (0-1')	8/23/2021		X				X			1	
30	Trench-7 (1')	8/23/2021		X				X			1	

LAB USE ONLY	REMARKS:
<input checked="" type="checkbox"/> RUSH: Same Day <input type="checkbox"/> Rush Charges Authorized <input type="checkbox"/> Special Report Limits or TRRP Report	ANALYSIS REQUEST (Circle or Specify Method No.) BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO - ORO - MRO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Hold

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

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

Page 4 of 4

Page 75 of 78

Client Name:

EOG Resources

Site Manager:

Brittany Long

Project Name:

Rattlesnake Pump Release

Project Location:
(county, state)

Lea County, New Mexico

Project #:

212C-MD-02560

Invoice to:

EOG/ ATTN: Kevin Black

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Ezequiel Moreno Flores

Comments:

SAMPLE IDENTIFICATION

LAB #

LAB USE ONLY

()

SAMPLING

YEAR

DATE

TIME

MATRIX

PRESERVATIVE METHOD

WATER

SOIL

HCL

HNO₃

ICE

CONTAINERS

FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

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

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

Relinquished by:

Date:

Received by:

Date:

LAB USE ONLY

REMARKS:

Relinquished by:

Date:

Received by:

Date:

LAB USE ONLY

REMARKS:

Relinquished by:

Date:

Received by:

Date:

LAB USE ONLY

REMARKS:

☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

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Page 5 of

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

Site Manager: Brittany Long

Project #: 212C-MD-02560

Invoice to:

EOG/ATTN: Kevin Black

Receiving Laboratory:	Cardinal Labs	Sampler Signature:	Ezequiel Moreno Flores
-----------------------	---------------	--------------------	------------------------

Comments:

[illegible]

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Mylo Tark	8/26/21	1:00	Imara Alkhatib	8/26/21	1:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:
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REMARKS:

LAB USE ONLY

Sample Temperature

☒ Rush: Same Day 24 hr 48 hr 72 hr

☐ Special Report Limits or TRRP Report

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

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Analysis Request of Chain of Custody Record

Page 6 of 7



Tetra Tech, Inc.

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

Client Name: EOG Resources

Site Manager:

Brittany Long

Project Name: Rattlesnake Pump Release

Project Location: Lea County, New Mexico

Project #:

212C-MD-02560

Invoice to:

EOG/ ATTN: Kevin Black

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Ezequiel Moreno Flores

Comments:

 LAB #
 (LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	TRENCH	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
51	Trench-11 (0-1')	8/23/2021		X					1			
52	Trench-11 (1')	8/23/2021		X					1			
53	Trench-11 (2')	8/23/2021		X					1			
54	Trench-11 (3')	8/23/2021		X					1			
55	Trench-11 (4')	8/23/2021		X					1			
56	Trench-11 (5')	8/23/2021		X					1			
57	Trench-11 (6')	8/23/2021		X					1			
58	Trench-11 (9')	8/23/2021		X					1			
59	Trench-11 (10')	8/23/2021		X					1			
60	Trench-11 (12')	8/23/2021		X					1			

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

Hold

REMARKS:

☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

LAB USE ONLY

Sample Temperature

3.1c
#113
T.D.

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Analysis Request of Chain of Custody Record

Page 7 of 7



Tetra Tech, Inc.

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

Client Name:

EOG Resources

Site Manager:

Brittany Long

Project Name:

Rattlesnake Pump Release

Project Location:
(county, state)

Lea County, New Mexico

Project #:

212C-MD-02560

Invoice to:

EOG/ ATTN: Kevin Black

Receiving Laboratory:

Cardinal Labs

Sampler Signature:

Ezequiel Moreno Flores

Comments:

LAB #
(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	TRENCH	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE				
61	Trench-11 (16)	8/23/2021		X				X		1	X	BTEX 8021B BTEX 8260B
62	Trench-11 (17)	8/23/2021		X				X		1	X	TPH TX1005 (Ext to C35)
63	Trench-12 (0-1)	8/23/2021		X				X		1	X	TPH 8015M (GRO - DRO - ORO - MRO)
64	Trench-12 (1)	8/23/2021		X				X		1	X	PAH 8270C
65	Trench-12 (2)	8/23/2021		X				X		1	X	Total Metals Ag As Ba Cd Cr Pb Se Hg
66	Trench-13 (0-1)	8/23/2021		X				X		1	X	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
67	Trench-13 (1)	8/23/2021		X				X		1	X	TCLP Volatiles
68	Trench-13 (2)	8/23/2021		X				X		1	X	TCLP Semi Volatiles
69	Trench-3 (4)	8/23/2021		X				X		1	X	RCI
												GC/MS Vol. 8260B / 624
												GC/MS Semi. Vol. 8270C/625
												PCB's 8082 / 608
												NORM
												PLM (Asbestos)
												Chloride
												Chloride Sulfate TDS
												General Water Chemistry (see attached list)
												Anion/Cation Balance
												Hold

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 45928

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 45928
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Total surface area = 243,648 sq/ft. Variance sample size approved for 500 sq/ft.	10/1/2021