

Incident ID	NAPP2119556223
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Todd Wells Title: Environmental Specialist
 Signature: Todd Wells Date: 9/29/21
 email: Todd_Wells@eogresources.com Telephone: (432) 686-3613

OCD Only

Received by: Chad Hensley Date: 10/15/2021

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

Closure Approved by: Chad Hensley Date: 10/15/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

SITE INFORMATION

Report Type: Closure Report NAPP2119556223

General Site Information:

Site:	Heartthrob Riser				
Company:	EOG Resources				
Section, Township and Range	Unit D	Sec. 21	T 24S	R 33E	
Lease Number:					
County:	Lea County				
GPS:	32.209515			-103.58343	
Surface Owner:	State				
Mineral Owner:					
Directions:	From intersection J-2 and NM-128, follow NM-128 West for 1.16 miles. Turn left onto lease road, Spill on the left.				

Release Data:

Date Released:	6/30/2021
Type Release:	Produced Water
Source of Contamination:	Damaged Valve
Fluid Released:	525 bbl water
Fluids Recovered:	105 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:	97.37' below ground surface
Karst Potential:	Low

Recommended Remedial Action Levels (RRALs)

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



September 29, 2021

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

Re: Closure Report for the EOG Resources, Heartthrob Riser, Unit D, Section 21, Township 24 South, Range 33 East, Lea County, New Mexico. NAPP2119556223

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, Heartthrob Riser, Unit D, Section 21, Township 24 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.209515°, -103.583430°. 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 30, 2021, and released approximately 525 barrels of produced water due to a damaged valve at the Heartthrob Riser. Approximately 105 barrels of produced water were recovered. The release occurred at the riser and flowed onto a pasture, impacting an area measuring approximately 1,100' X 115'. 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. Additionally, the site is located in a low karst potential area. The nearest well is listed on the USGS National Water Information System is in section 17 approximately 0.04 miles from the site, and has a reported depth to groundwater of 97.37' below surface. However, due to the age of this groundwater data dating further than 25 years ago, this groundwater information was not adequate to change site RRALs. Site characterization information is found in Appendix B.

Tetra Tech

901 West Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



Regulatory

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

Soil Assessment and Analytical Results

On July 29, 2021 and August 17, 2021, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of ten (10) auger holes (AH-1 through AH-10) were installed in the release footprint with depths ranging from surface to 4.5' below surface. Additionally, fourteen (14) 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, total BTEX, or TPH concentrations above the RRALs. However, the areas of auger holes (AH-1 through AH-6) reported chloride concentrations above the 600 mg/kg threshold, with concentrations ranging from 622 mg/kg to 3,530 mg/kg, at depths ranging from surface to 4.5' below surface. Additionally, all horizontal samples and auger holes (AH-7 through AH-10) reported benzene, total BTEX, TPH, and chloride concentrations below the RRALs. However, vertical delineation was not found in the areas of auger holes (AH-1, AH-2, and AH-5).

Remediation and Reclamation Activities

Tetra Tech personnel were onsite September 1, 2021 through September 10, 2021, to supervise the remediation and collect confirmation samples. The impacted areas were excavated to depths ranging from 1.0' below surface and 16.0' below surface, as shown on Figure 4 and Table 2.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of fifty-eight (58) bottom hole samples (BH-14 through BH-71) and fifty-four (54) sidewall samples (SW-1 through SW-38, and SW-40 through SW-55) were collected to ensure proper removal of the impacted soils. The areas of bottom holes (BH-18 through BH-22, BH-24, BH-25, and BH-32) were remediated to a depth of 16.0' below surface. The areas of bottom holes (BH-16, BH-17, and BH-23) were remediated to the depth of 10.0' below surface. The areas of bottom holes (BH-54 through BH-64) to the depth of 6.0' below surface. The areas of bottom holes (BH-26 through BH-31 and BH-65 through BH-71) were remediated to the depth of 4.0' below surface. The areas of bottom holes (BH-33 through BH-53) were remediated to the depth of 3.0' below surface. The areas of bottom holes (BH-14 and BH-15) were remediated to the depth of 1.0' below surface. The samples were submitted to the laboratory to be analyzed for TPH method 8015



modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 2. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths, and sample locations are shown in Figure 4.

Due to sampling number changes, bottom holes (BH-1 through BH-13) and sidewall (SW-39) were not collected, sampling number sequence started with bottom hole (BH-14) and continued throughout the remediation. Additionally, although sample sequence is irregular, the remediation was sampled in compliance with the regulatory standards located in Subsection D, Paragraph 1, 19.15.29.12 NMAC.

Referring to Table 2, all final confirmation samples collected showed benzene, total BTEX, TPH, and chloride concentrations below the RRALs.

Approximately 3,575 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.

Conclusion

Based on the laboratory results, remediation activities performed, EOG requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

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

Brittany Long,
Project Manager

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

Clair Gonzales, P.G.
Senior Project Manager

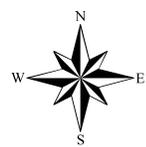


Figures



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 SITE LOCATION



0 2.5 5 Miles
Approximate Scale in Miles

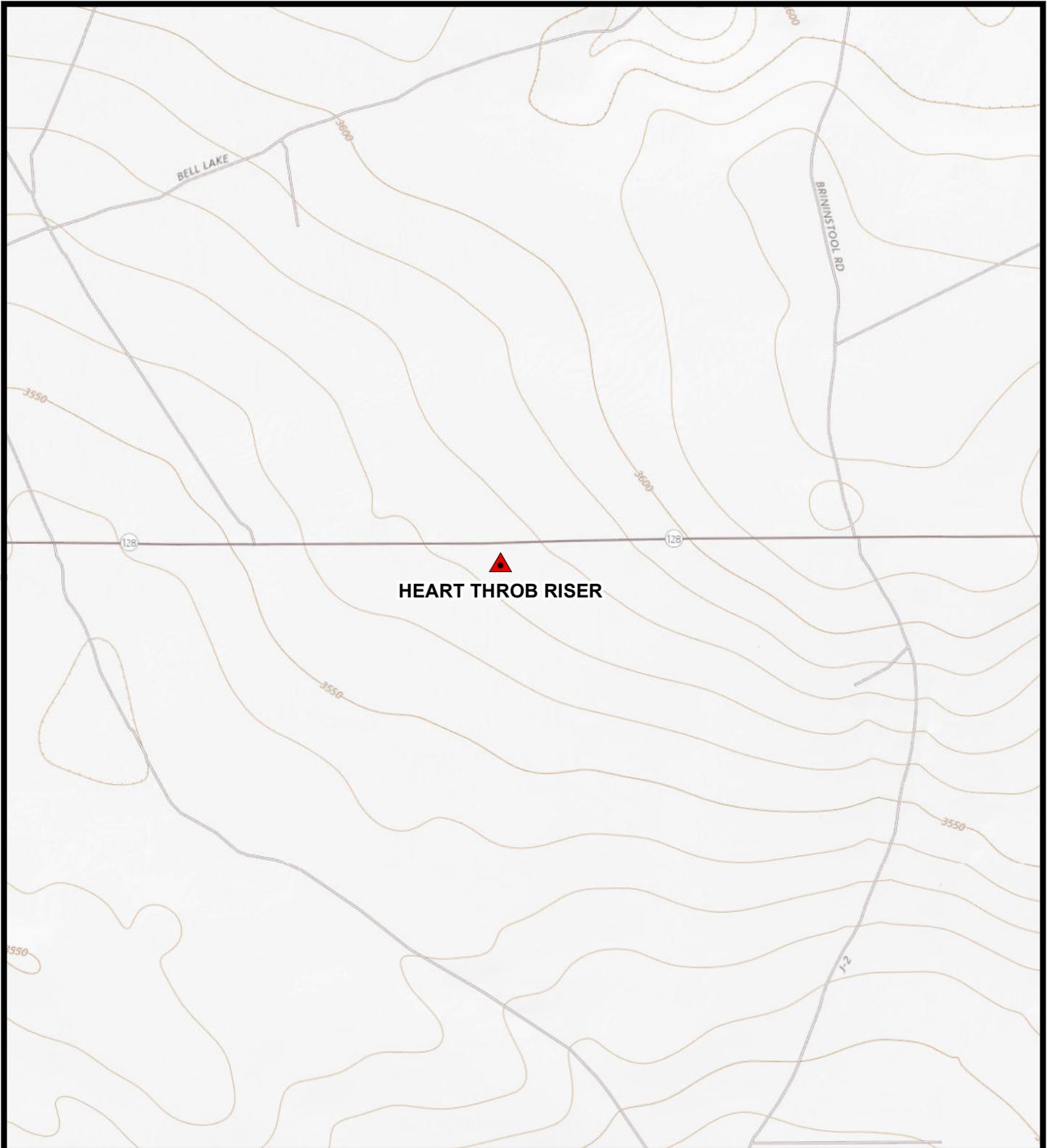
OVERVIEW MAP
HEART THROB RISER
Property Located at coordinates 32.209515°, -103.58340°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02559

FIGURE
1

Source: ESRI Basemap - Streets, 2021.



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 SITE LOCATION



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

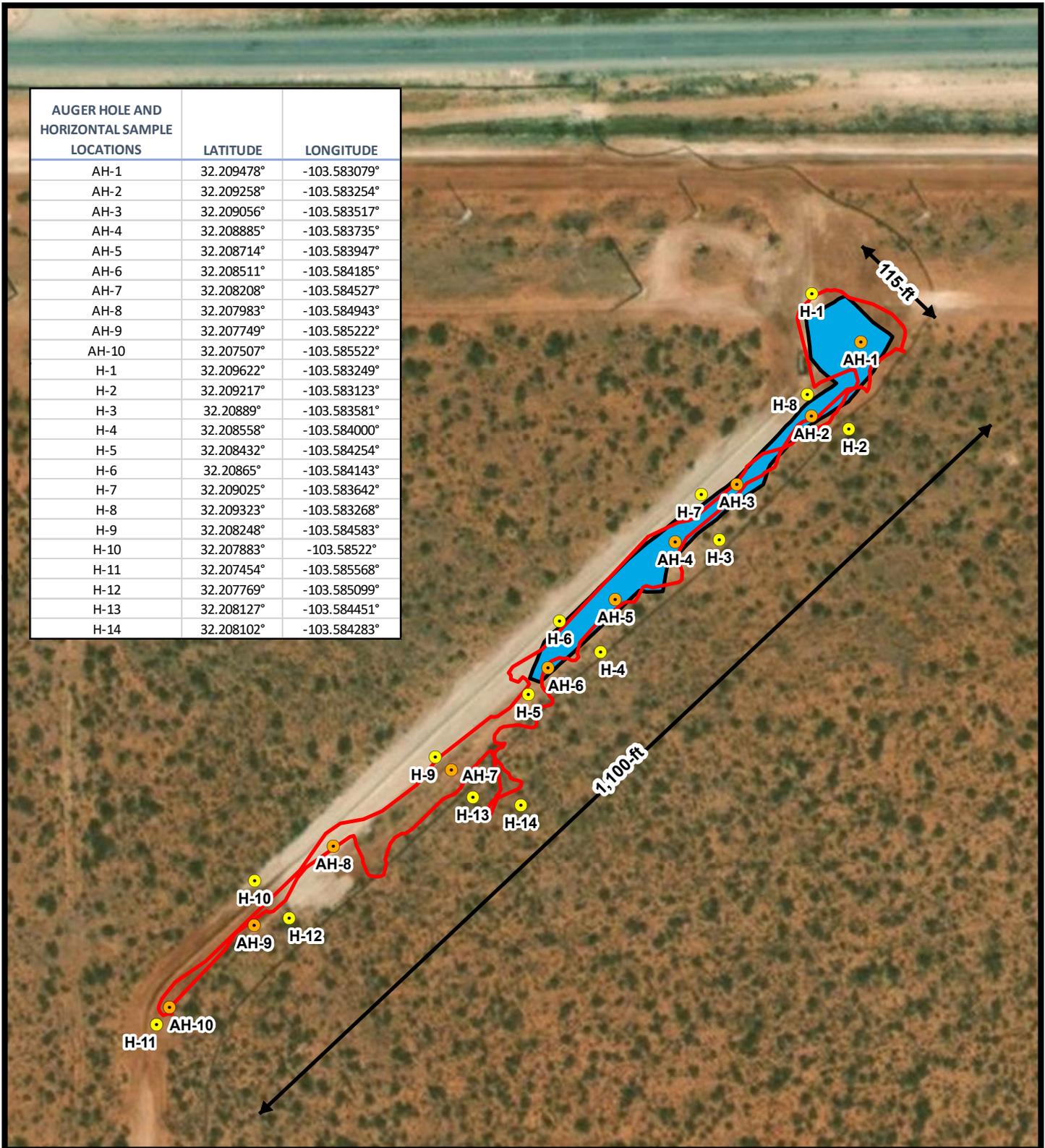
TOPOGRAPHIC MAP
HEART THROB RISER
Property Located at coordinates 32.209515°, -103.58340°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02559

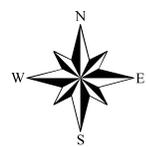
FIGURE
2

AUGER HOLE AND HORIZONTAL SAMPLE LOCATIONS	LATITUDE	LONGITUDE
AH-1	32.209478°	-103.583079°
AH-2	32.209258°	-103.583254°
AH-3	32.209056°	-103.583517°
AH-4	32.208885°	-103.583735°
AH-5	32.208714°	-103.583947°
AH-6	32.208511°	-103.584185°
AH-7	32.208208°	-103.584527°
AH-8	32.207983°	-103.584943°
AH-9	32.207749°	-103.585222°
AH-10	32.207507°	-103.585522°
H-1	32.209622°	-103.583249°
H-2	32.209217°	-103.583123°
H-3	32.20889°	-103.583581°
H-4	32.208558°	-103.584000°
H-5	32.208432°	-103.584254°
H-6	32.20865°	-103.584143°
H-7	32.209025°	-103.583642°
H-8	32.209323°	-103.583268°
H-9	32.208248°	-103.584583°
H-10	32.207883°	-103.58522°
H-11	32.207454°	-103.585568°
H-12	32.207769°	-103.585099°
H-13	32.208127°	-103.584451°
H-14	32.208102°	-103.584283°



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- AUGER HOLE SAMPLE LOCATION
- HORIZONTAL SAMPLE LOCATION
- EOG SPILL FOOTPRINT
- LANDOWNER SPILL FOOTPRINT

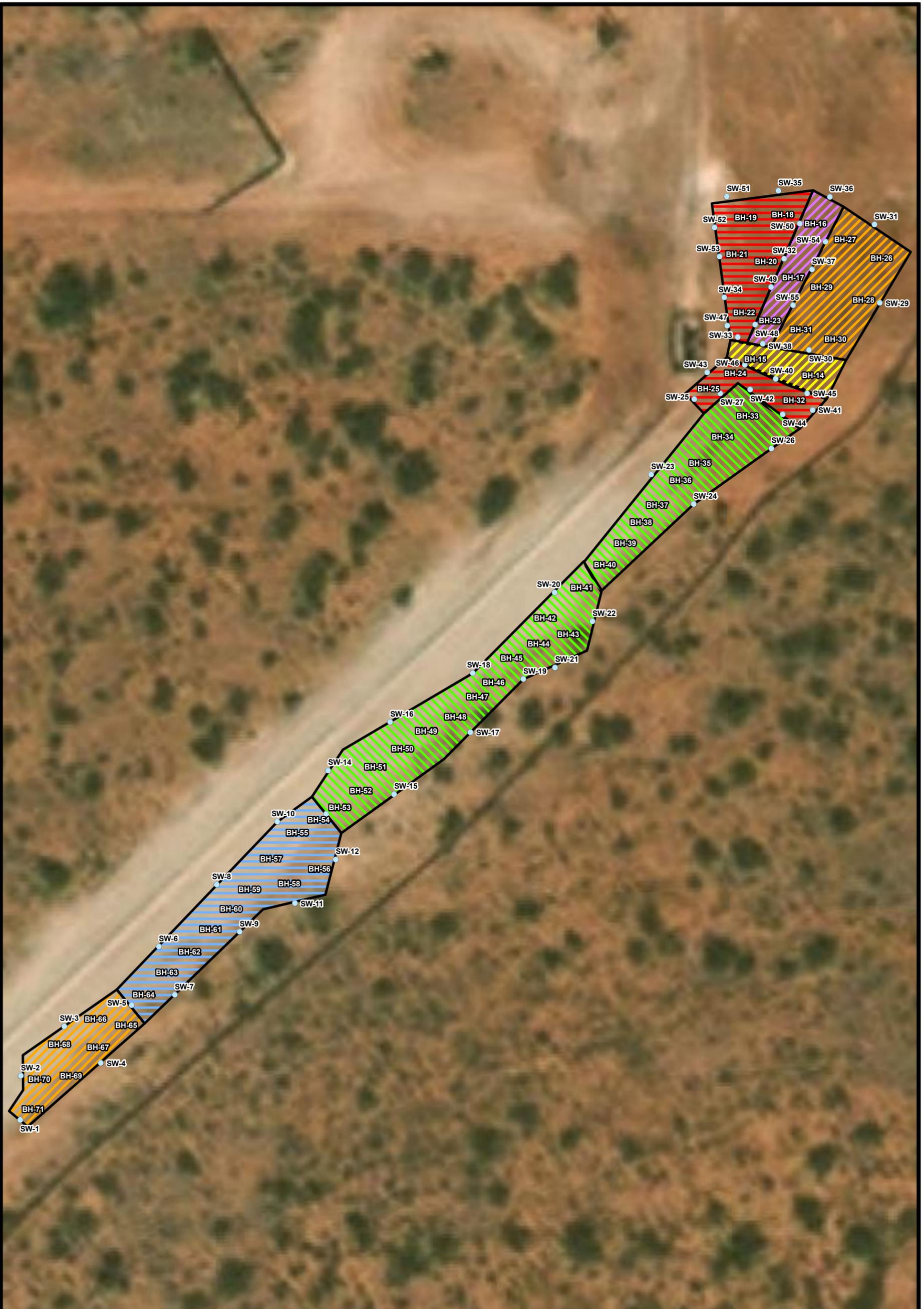


Source: ESRI Basemap - Imagery, 2020.

SPILL ASSESSMENT MAP AND BORING LOCATIONS
HEART THROB RISER
 Property Located at coordinates 32.209515°, -103.58340°
 LEA COUNTY, NEW MEXICO



FIGURE
3



BH	BOTTOM HOLE SAMPLE LOCATION		1' EXCAVATION DEPTH
	SIDEWALL DESIGNATION		3' EXCAVATION DEPTH
			4' EXCAVATION DEPTH
			6' EXCAVATION DEPTH
			10' EXCAVATION DEPTH
			16' EXCAVATION DEPTH

Source: ESRI Basemap - Imagery, 2020.

0 20 40 Feet
Approximate Scale in Feet

EXCAVATION AREA AND DEPTH MAP
HEART THROB RISER
Property Located at coordinates 32.209515°, -103.58340°
LEA COUNTY, NEW MEXICO

Project #: 212C-MD-02559

FIGURE 4



Tables

Table 1
EOG Resources
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Excavation Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	MRO	Total						
AH-1	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1400
	7/29/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	766
AH-2	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	3530
AH-3	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	873
	7/29/2021	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	370
AH-4	7/29/2021	0-1	X	-	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	622
	7/29/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	293
	7/29/2021	2-2.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	95.3
	7/29/2021	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	53.9
AH-5	7/29/2021	4-4.5	X	-	51.5	<49.9	<49.9	51.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.8
	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	302
	7/29/2021	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	382
	7/29/2021	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	982
	7/29/2021	3-3.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1480
AH-6	7/29/2021	4-4.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	2860
	7/29/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	3070
	7/29/2021	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	2450
	7/29/2021	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	805
	7/29/2021	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	543
AH-7	7/29/2021	4-4.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	165
	8/17/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	23.1
	8/17/2021	1-1.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.1
	8/17/2021	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	22.5
AH-8	8/17/2021	3-3.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	21.3
	8/17/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	31.2
	8/17/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	25.4
	8/17/2021	2-2.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	24.9
AH-9	8/17/2021	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	22.9
	8/17/2021	0-1	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	22.5
	8/17/2021	1-1.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	30.1
	8/17/2021	2-2.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	23.0
AH-10	8/17/2021	3-3.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	22.4
	8/17/2021	0-1	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	23.1
	8/17/2021	1-1.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	22.4
	8/17/2021	2-2.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	36.5
AH-10	8/17/2021	3-3.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	38.1

Table 1
EOG Resources
Heart Throb Riser Release
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	-	55.3	<50.0	<50.0	55.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	52.2
H-2	7/29/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	0.00324	<0.00200	<0.00399	<0.00399	18.5
H-3	7/29/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	6.53
H-4	7/29/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	7.20
H-5	7/29/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	6.99
H-6	7/29/2021	0-0.5	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	27.5
H-7	7/29/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	523
H-8	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	16.1
H-9	8/17/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	28.0
H-10	8/17/2021	0-0.5	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	28.1
H-11	8/17/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	24.0
H-12	8/17/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	32.1
H-13	8/17/2021	0-0.5	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	514
H-14	8/17/2021	0-0.5	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.5

(-) Not Analyzed

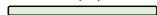
 Exceeds Thresholds

Table 2
EOG
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	ORO	Total						
BH-14	9/13/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-15	9/13/2021	1.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BH-16	9/10/2021	10.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-17	9/10/2021	10.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-18	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-19	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-20	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
BH-21	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
BH-22	8/25/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-23	9/10/2021	10.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-24	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
BH-25	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
BH-26	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-27	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-28	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-29	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-30	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
BH-31	9/9/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
BH-32	9/10/2021	16.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
BH-33	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BH-34	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
BH-35	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
BH-36	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368

Table 2
EOG
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	ORO	Total						
BH-37	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
BH-38	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	272
BH-39	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
BH-40	9/8/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	304
BH-41	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
BH-42	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-43	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-44	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-45	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-46	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-47	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
BH-48	9/7/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BH-49	9/7/2021	3.0'	X	-	<10.0	13.0	<10.0	13.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-50	9/2/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
BH-51	9/2/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-52	9/2/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-53	9/2/2021	3.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-54	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-55	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
BH-56	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-57	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-58	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	320
BH-59	9/8/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
BH-60	9/2/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-61	9/2/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
BH-62	9/2/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
BH-63	9/2/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-64	9/2/2021	6.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0

Table 2
EOG
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Sample 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	DRO	GRO	ORO	Total						
BH-65	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-66	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
BH-67	9/7/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
BH-68	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
BH-69	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
BH-70	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
BH-71	9/2/2021	4.0'	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-1	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-2	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-3	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-4	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-5	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-6	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-7	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-8	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-9	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-10	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-11	9/7/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-12	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-13	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-14	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-15	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-16	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-17	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-18	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-19	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-20	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0

Table 2
EOG
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Sample 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	DRO	GRO	ORO	Total						
SW-21	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-22	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-23	9/13/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-24	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-25	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-26	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-27	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-28	9/8/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-29	9/9/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-30	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-31	9/9/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-32	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	336
SW-33	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-34	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-35	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-36	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-37	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-38	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-40	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-41	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-42	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-43	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-44	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-45	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-46	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-47	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
SW-48	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192

Table 2
EOG
Heart Throb Riser Release
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	DRO	GRO	ORO	Total						
SW-49	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-50	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-51	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-52	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-53	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-54	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-55	9/10/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0

(-) Not Analyzed



Photographic Documentation

EOG Resources Heartthrob Riser Release Lea County, New Mexico



TETRA
TECH



View of Remediation Activities – View Northeast



View of Remediation Activities – View Northeast

EOG Resources Heartthrob Riser Release Lea County, New Mexico



TETRA TECH



View of Remediation Activities – View Northeast



View of Remediation Activities – View Southwest



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	NAPP2119556223
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) NAPP2119556223
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.209515° Longitude -103.583430°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Heartthrob Riser	Site Type Reuse Water Line Booster Pump
Date Release Discovered 6/30/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	21	24S	33E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Reuse Water	Volume Released (bbls) 525	Volume Recovered (bbls) 105
	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: While pumping treated reuse water from pit to pit, the 1/2" valve broke on the booster pump at the Heartthrob Riser. Approximately 525 bbls of reuse water was released at the riser with 105 bbls recovered.

Avg. inlet flow rate:	97.25 BPM
Avg. outlet flow rate:	94.49 BPM
Spill Time:	190 minutes
Total Spill Volume:	(97.25 BPM - 94.49 BPM) * 190 Minutes = 524.4 BBLS

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2119556223
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email notification to the District 1 Spills Inbox on 7/1/21.	

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>7-14-21</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>7/16/2021</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	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: Todd Wells Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Appendix B

Site Characterization Documents



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 = 321236103350101

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

USGS 321236103350101 24S.33E.17.444414

Lea County, New Mexico
 Latitude 32°12'36", Longitude 103°35'01" NAD27
 Land-surface elevation 3,573 feet above NAVD88
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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
1986-03-11		D	62610		3473.93	NGVD29	1	Z		
1986-03-11		D	62611		3475.63	NAVD88	1	Z		
1986-03-11		D	72019	97.37			1	Z		

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	Z	Other.

Section	Code	Description
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)
- [News](#)

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

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

Title: Groundwater for New Mexico: Water Levels

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



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

Page Last Modified: 2021-08-02 16:13:28 EDT

0.46 0.32 nadww01



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	02430	3	3	3	16	24S	33E	633377	3564732*

Driller License: 421	Driller Company: GLENN'S WATER WELL SERVICE	
Driller Name: GLENN'S		
Drill Start Date: 01/01/1970	Drill Finish Date: 12/31/1982	Plug Date:
Log File Date:	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 12 GPM
Casing Size: 8.63	Depth Well: 643 feet	Depth Water: 415 feet

Meter Number: 526	Meter Make: MASTER METER
Meter Serial Number: 6173115	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
12/30/1998	1999	222014	A	ms		0
04/02/1999	1999	222014	A	ms		0
07/20/1999	1999	229709	A	ms		2.362
11/01/1999	1999	243643	A	ms		4.276
01/01/2000	2000	0	A	MB		0
01/10/2000	2000	0	A	ms		0
01/10/2000	1999	254720	A	ms		3.399
05/05/2000	2000	16024	A	MB		4.918
07/06/2000	2000	25577	A	RPT		2.932
10/05/2000	2000	41965	A	ms		5.029
01/04/2001	2000	49216	A	RPT		2.225
04/01/2001	2001	57467	A	RPT		2.532
07/01/2001	2001	71275	A	RPT		4.238
10/05/2001	2001	85782	A	RPT		4.452
04/01/2002	2002	94480	A	mb		2.669
07/02/2002	2002	101278	A	rm		2.086
01/01/2003	2002	119207	A	RPT		5.502
04/01/2003	2003	139769	A	RPT		6.310
07/01/2003	2003	154457	A	RPT		4.508
10/02/2003	2003	170631	A	ab		4.964
01/01/2004	2003	186443	A	ab		4.853
04/04/2004	2004	199408	A	RPT		3.979
07/01/2004	2004	211814	A	RPT		3.807
10/04/2004	2004	223841	A	tw		3.691
10/24/2004	2004	0	A	RPT		0

01/03/2005	2004	13173	A	RPT	4.043
04/05/2005	2005	25213	A	RPT	3.695
07/01/2005	2005	31810	A	RPT	2.025
10/31/2005	2005	46571	A	RPT	4.530
12/31/2005	2005	51640	A	RPT	1.556
04/20/2006	2006	64273	A	RPT	3.877
07/08/2006	2006	76246	A	tw	3.674
10/02/2006	2006	93830	A	tw	5.396
01/01/2007	2006	111048	A	tw	5.284
04/03/2007	2007	124685	A	RPT	4.185
07/31/2007	2007	143346	A	RPT	5.727
10/28/2007	2007	156617	A	RPT	4.073
01/01/2008	2007	163870	A	RPT	2.226
04/16/2008	2008	173327	A	RPT	2.902
07/01/2008	2008	182792	A	RPT	2.905
10/03/2008	2008	197162	A	RPT	4.410
12/31/2008	2008	210221	A	RPT	4.008
04/01/2009	2009	228122	A	RPT	5.494
07/05/2009	2009	243585	A	RPT	4.745
10/05/2009	2009	266518	A	RPT	7.038
01/01/2010	2009	286715	A	RPT	6.198
04/04/2010	2010	316041	A	RPT	9.000
07/01/2010	2010	355132	A	RPT	11.997
10/01/2010	2010	371894	A	RPT	5.144
12/31/2010	2010	398722	A	RPT	8.233
04/01/2011	2011	427251	A	RPT	8.755
07/01/2011	2011	455947	A	RPT	8.806
10/08/2011	2011	487406	A	RPT	9.654
12/31/2011	2011	512383	A	RPT	7.665
04/01/2012	2012	542641	A	RPT	9.286
07/02/2012	2012	560510	A	RPT	5.484
10/02/2012	2012	571427	A	RPT	3.350
01/01/2013	2012	107852	R	RPT Meter Rollover	164.623
04/03/2013	2013	142637	A	RPT	10.675
07/01/2013	2013	173648	A	RPT	9.517
10/03/2013	2013	178608	A	RPT	1.522
12/31/2013	2013	202691	A	RPT	7.391
04/01/2014	2014	234481	A	RPT	9.756
07/01/2014	2014	267094	A	RPT	10.009
10/03/2014	2014	302205	A	RPT	10.775
01/07/2015	2014	337260	A	RPT	10.758
01/12/2015	2015	0	A	RPT	0
04/05/2015	2015	25923	A	RPT	7.955
07/01/2015	2015	56013	A	RPT	9.234
12/31/2015	2015	270240	A	RPT	0
04/01/2016	2016	289242	A	RPT	5.831
07/01/2016	2016	311329	A	RPT	6.778
10/01/2016	2016	333139	A	RPT	6.693
01/01/2017	2016	356495	A	RPT	7.168

x
****YTD Meter Amounts: Year Amount**

1999	10.037
2000	15.104
2001	11.222
2002	10.257
2003	20.635
2004	15.520
2005	11.806
2006	18.231
2007	16.211
2008	14.225
2009	23.475
2010	34.374
2011	34.880
2012	182.743
2013	29.105
2014	41.298
2015	17.189
2016	26.470

x

***UTM location was derived from PLSS - see Help**

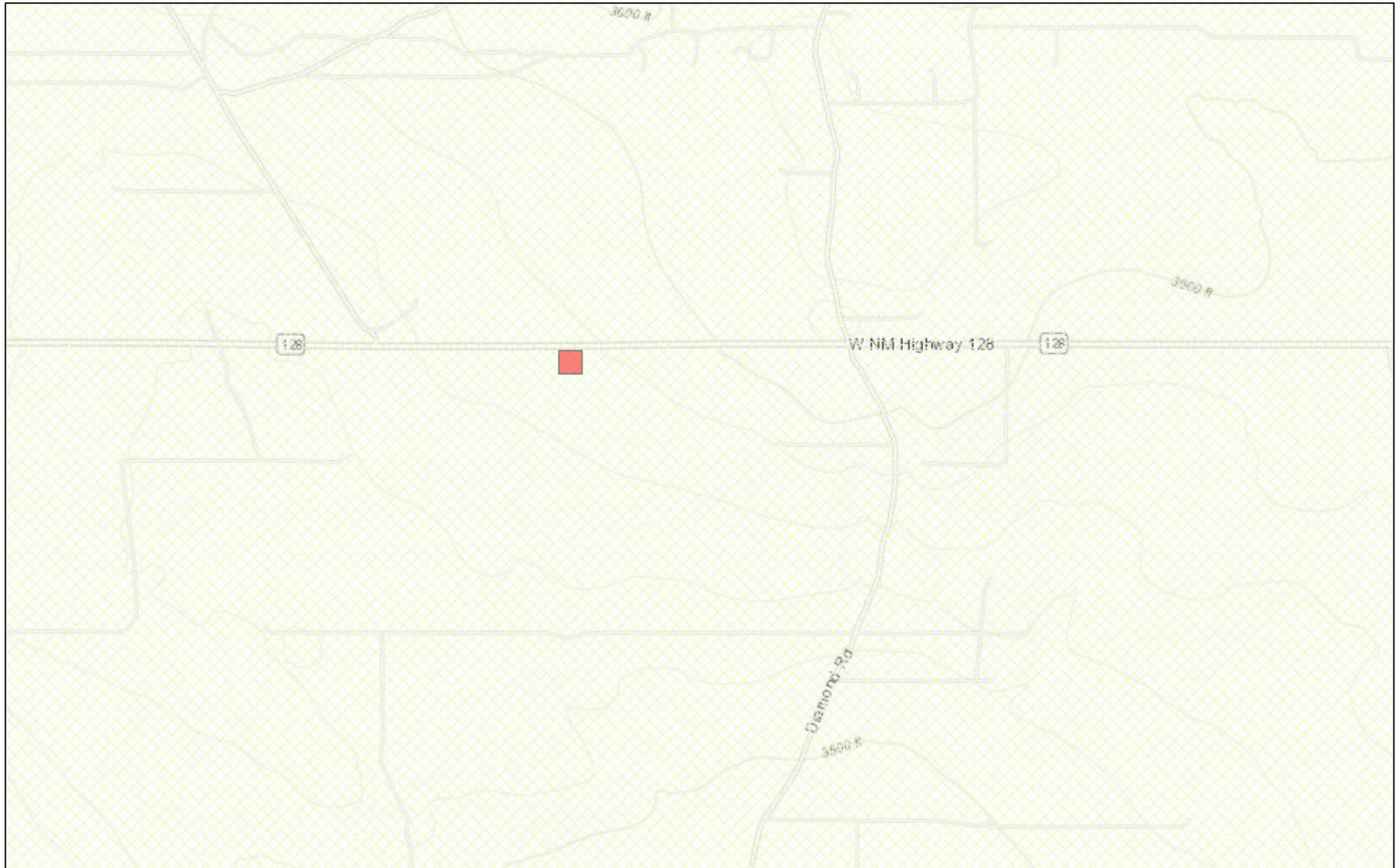
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/2/21 11:59 AM

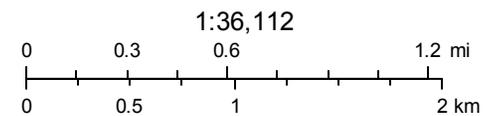
POINT OF DIVERSION SUMMARY



New Mexico NFHL Data



August 2, 2021



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

Low Karst
OG Resources
Heart Throb Riser Spill

Released to Imaging: 10/13/2021 9:03:08 AM

Legend

-  Heart Throb Riser Spill
-  High
-  Low
-  Medium

Received by: OCD: 9/29/2021 1:48:30 PM

 Heart Throb Spill

Google Earth

© 2021 Google
Image Landsat / Copernicus


Page 36 of 280

10 mi

**Water Well Data
Average Depth to Groundwater (ft)
EOG Resources
Heart Throb Riser Spill (July 2021)
Lea County, New Mexico**

23 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

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

23 South			34 East				
6	329	5	4	3	2	1	137
7	8	255	9	10	11	12	
18	17	16	345	15	14	13	
19	20	21	22	282	23	233	24
30	29	28	27	26	25		
31	32	160	33	34	35	36	
		130					

24 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

24 South			33 East			
6	5	4	3	2	1	
7	8	9	10	20	11	12
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	70	34	35	36
			93.2			

24 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

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

25 South			33 East			
6	5	4	3	172	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	

25 South			34 East			
6	5	4	3	2	1	260
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	129	28	27	26	25
31	32	50	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: 880-4538-1
Laboratory Sample Delivery Group: Lea County, New Mexico
Client Project/Site: Heart Throb

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

Attn: Clair Gonzales

Authorized for release by:
8/2/2021 1:02:58 PM

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

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Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Laboratory Job ID: 880-4538-1
SDG: Lea County, New Mexico

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
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

Eurofins Xenco, Midland

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Job ID: 880-4538-1

Laboratory: Eurofins Xenco, Midland

Narrative

Job Narrative
880-4538-1

Receipt

The samples were received on 7/30/2021 1:15 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 sample was outside control limits: AH-6 (3-3.5') (880-4538-19). 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

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

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Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-1

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
Ethylbenzene	<0.00202	U F1	0.00202		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
o-Xylene	<0.00202	U F1	0.00202		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
Xylenes, Total	<0.00403	U F1	0.00403		mg/Kg		07/30/21 14:05	08/01/21 20:09	1
Total BTEX	<0.00403	U F1 F2	0.00403		mg/Kg		07/30/21 14:05	08/01/21 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/30/21 14:05	08/01/21 20:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 14:05	08/01/21 20:09	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 10:20	08/01/21 14:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 14:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 14:15	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	07/31/21 10:20	08/01/21 14:15	1
o-Terphenyl	101		70 - 130	07/31/21 10:20	08/01/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1400		4.99		mg/Kg			07/31/21 18:30	1

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-4538-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 20:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 20:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 20:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 20:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 20:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 20:29	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	07/30/21 14:05	08/01/21 20:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130	07/30/21 14:05	08/01/21 20:29	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 10:20	08/01/21 15:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-4538-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 10:20	08/01/21 15:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 15:19	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				07/31/21 10:20	08/01/21 15:19	1
o-Terphenyl	99		70 - 130				07/31/21 10:20	08/01/21 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	766		5.04		mg/Kg			07/31/21 18:46	1

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

Lab Sample ID: 880-4538-3

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 20:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				07/30/21 14:05	08/01/21 20:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130				07/30/21 14:05	08/01/21 20:50	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 10:20	08/01/21 15:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 15:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 15:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/31/21 10:20	08/01/21 15:40	1
o-Terphenyl	94		70 - 130				07/31/21 10:20	08/01/21 15:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		24.9		mg/Kg			07/31/21 18:52	5

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-4

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 21:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 21:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 21:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 21:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/01/21 21:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 21:10	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/01/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/30/21 14:05	08/01/21 21:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 14:05	08/01/21 21:10	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 10:20	08/01/21 16:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 16:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 16:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	07/31/21 10:20	08/01/21 16:01	1
o-Terphenyl	89		70 - 130	07/31/21 10:20	08/01/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	873		4.95		mg/Kg			07/31/21 18:57	1

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-4538-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 21:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 21:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 21:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 21:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 21:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 21:31	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/30/21 14:05	08/01/21 21:31	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 14:05	08/01/21 21:31	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	<49.8	U	49.8		mg/Kg		07/31/21 10:20	08/01/21 16:22	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-4538-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<49.8	U	49.8		mg/Kg		07/31/21 10:20	08/01/21 16:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/31/21 10:20	08/01/21 16:22	1
Total TPH	<49.8	U	49.8		mg/Kg		07/31/21 10:20	08/01/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/31/21 10:20	08/01/21 16:22	1
o-Terphenyl	92		70 - 130				07/31/21 10:20	08/01/21 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	370		5.02		mg/Kg			07/31/21 19:03	1

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

Lab Sample ID: 880-4538-6

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 21:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				07/30/21 14:05	08/01/21 21:51	1
1,4-Difluorobenzene (Surr)	91		70 - 130				07/30/21 14:05	08/01/21 21:51	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	<49.7	U	49.7		mg/Kg		07/31/21 10:20	08/01/21 16:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		07/31/21 10:20	08/01/21 16:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/31/21 10:20	08/01/21 16:43	1
Total TPH	<49.7	U	49.7		mg/Kg		07/31/21 10:20	08/01/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 10:20	08/01/21 16:43	1
o-Terphenyl	95		70 - 130				07/31/21 10:20	08/01/21 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	622		4.97		mg/Kg			07/31/21 19:19	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-4 (1-1.5')

Lab Sample ID: 880-4538-7

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 22:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 22:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 22:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 22:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 22:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 22:11	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 22:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/30/21 14:05	08/01/21 22:11	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 14:05	08/01/21 22:11	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 10:20	08/01/21 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 17:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 17:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	07/31/21 10:20	08/01/21 17:04	1
o-Terphenyl	94		70 - 130	07/31/21 10:20	08/01/21 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		4.95		mg/Kg			07/31/21 19:24	1

Client Sample ID: AH-4 (2-2.5')

Lab Sample ID: 880-4538-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 22:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 22:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 22:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 22:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 22:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 22:32	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/01/21 22:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/30/21 14:05	08/01/21 22:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/21 14:05	08/01/21 22:32	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 10:20	08/01/21 17:25	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-4 (2-2.5')

Lab Sample ID: 880-4538-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/31/21 10:20	08/01/21 17:25	1
o-Terphenyl	97		70 - 130				07/31/21 10:20	08/01/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.3		4.98		mg/Kg			07/31/21 19:30	1

Client Sample ID: AH-4 (3-3.5')

Lab Sample ID: 880-4538-9

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 22:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/01/21 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				07/30/21 14:05	08/01/21 22:52	1
1,4-Difluorobenzene (Surr)	90		70 - 130				07/30/21 14:05	08/01/21 22:52	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 10:20	08/01/21 17:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:46	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/31/21 10:20	08/01/21 17:46	1
o-Terphenyl	91		70 - 130				07/31/21 10:20	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	53.9		5.00		mg/Kg			07/31/21 19:35	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-4 (4-4.5')

Lab Sample ID: 880-4538-10

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/01/21 23:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 23:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 23:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 23:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/01/21 23:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 23:13	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/01/21 23:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	07/30/21 14:05	08/01/21 23:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/30/21 14:05	08/01/21 23:13	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 10:20	08/01/21 18:06	1
Diesel Range Organics (Over C10-C28)	51.5		49.9		mg/Kg		07/31/21 10:20	08/01/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 18:06	1
Total TPH	51.5		49.9		mg/Kg		07/31/21 10:20	08/01/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	07/31/21 10:20	08/01/21 18:06	1
o-Terphenyl	96		70 - 130	07/31/21 10:20	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	25.8		4.99		mg/Kg			07/31/21 19:40	1

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

Lab Sample ID: 880-4538-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 00:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/02/21 00:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/02/21 00:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/02/21 00:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/30/21 14:05	08/02/21 00:34	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/02/21 00:34	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		07/30/21 14:05	08/02/21 00:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	07/30/21 14:05	08/02/21 00:34	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/21 14:05	08/02/21 00:34	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 10:20	08/01/21 18:48	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 18:48	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				07/31/21 10:20	08/01/21 18:48	1
o-Terphenyl	97		70 - 130				07/31/21 10:20	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		5.00		mg/Kg			07/31/21 19:46	1

Client Sample ID: AH-5 (1-1.5')

Lab Sample ID: 880-4538-12

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 00:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/30/21 14:05	08/02/21 00:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/30/21 14:05	08/02/21 00:55	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 10:20	08/01/21 19:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 19:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 19:09	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				07/31/21 10:20	08/01/21 19:09	1
o-Terphenyl	95		70 - 130				07/31/21 10:20	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	382		4.98		mg/Kg			07/31/21 20:02	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (2-2.5')

Lab Sample ID: 880-4538-13

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 01:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:15	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	07/30/21 14:05	08/02/21 01:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 14:05	08/02/21 01:15	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 10:20	08/01/21 19:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 19:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 19:30	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	07/31/21 10:20	08/01/21 19:30	1
o-Terphenyl	92		70 - 130	07/31/21 10:20	08/01/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	982		4.97		mg/Kg			07/31/21 20:07	1

Client Sample ID: AH-5 (3-3.5')

Lab Sample ID: 880-4538-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 01:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/02/21 01:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/02/21 01:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/02/21 01:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/30/21 14:05	08/02/21 01:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/02/21 01:35	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		07/30/21 14:05	08/02/21 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/30/21 14:05	08/02/21 01:35	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/21 14:05	08/02/21 01:35	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 10:20	08/01/21 19:51	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (3-3.5')

Lab Sample ID: 880-4538-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 10:20	08/01/21 19:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 19:51	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:20	08/01/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/31/21 10:20	08/01/21 19:51	1
o-Terphenyl	103		70 - 130				07/31/21 10:20	08/01/21 19:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1480		24.8		mg/Kg			07/31/21 20:24	5

Client Sample ID: AH-5 (4-4.5')

Lab Sample ID: 880-4538-15

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 01:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:05	08/02/21 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				07/30/21 14:05	08/02/21 01:56	1
1,4-Difluorobenzene (Surr)	93		70 - 130				07/30/21 14:05	08/02/21 01:56	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 10:21	08/01/21 20:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 20:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 20:12	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 20:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 10:21	08/01/21 20:12	1
o-Terphenyl	93		70 - 130				07/31/21 10:21	08/01/21 20:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2860		25.2		mg/Kg			07/31/21 20:29	5

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-16

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/02/21 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/02/21 02:16	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/02/21 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/30/21 14:05	08/02/21 02:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	07/30/21 14:05	08/02/21 02:16	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 10:21	08/01/21 20:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:34	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	07/31/21 10:21	08/01/21 20:34	1
o-Terphenyl	90		70 - 130	07/31/21 10:21	08/01/21 20:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3070		24.9		mg/Kg			07/31/21 20:34	5

Client Sample ID: AH-6 (1-1.5')

Lab Sample ID: 880-4538-17

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 02:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 02:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 02:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 02:37	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	07/30/21 14:05	08/02/21 02:37	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/21 14:05	08/02/21 02:37	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 10:21	08/01/21 20:54	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-6 (1-1.5')

Lab Sample ID: 880-4538-17

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:54	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 20:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				07/31/21 10:21	08/01/21 20:54	1
o-Terphenyl	92		70 - 130				07/31/21 10:21	08/01/21 20:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2450		24.8		mg/Kg			08/02/21 09:17	5

Client Sample ID: AH-6 (2-2.5')

Lab Sample ID: 880-4538-18

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 02:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		07/30/21 14:05	08/02/21 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130				07/30/21 14:05	08/02/21 02:57	1
1,4-Difluorobenzene (Surr)	98		70 - 130				07/30/21 14:05	08/02/21 02:57	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 10:21	08/01/21 21:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 21:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 21:15	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:21	08/01/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 10:21	08/01/21 21:15	1
o-Terphenyl	92		70 - 130				07/31/21 10:21	08/01/21 21:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	805		4.99		mg/Kg			08/02/21 09:33	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-6 (3-3.5')

Lab Sample ID: 880-4538-19

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:05	08/02/21 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 03:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/02/21 03:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 03:18	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:05	08/02/21 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	07/30/21 14:05	08/02/21 03:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 14:05	08/02/21 03:18	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 10:21	08/01/21 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:36	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	07/31/21 10:21	08/01/21 21:36	1
o-Terphenyl	94		70 - 130	07/31/21 10:21	08/01/21 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	543		4.97		mg/Kg			08/02/21 09:38	1

Client Sample ID: AH-6 (4-4.5')

Lab Sample ID: 880-4538-20

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/21 14:05	08/02/21 03:38	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/30/21 14:05	08/02/21 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/30/21 14:05	08/02/21 03:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	07/30/21 14:05	08/02/21 03:38	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 10:21	08/01/21 21:57	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-6 (4-4.5')

Lab Sample ID: 880-4538-20

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:57	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:21	08/01/21 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				07/31/21 10:21	08/01/21 21:57	1
o-Terphenyl	95		70 - 130				07/31/21 10:21	08/01/21 21:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	165		4.98		mg/Kg			08/02/21 09:43	1

Client Sample ID: H-1

Lab Sample ID: 880-4538-31

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 22:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
Total BTEX	<0.00398	U F1	0.00398		mg/Kg		07/30/21 14:45	07/31/21 22:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				07/30/21 14:45	07/31/21 22:27	1
1,4-Difluorobenzene (Surr)	105		70 - 130				07/30/21 14:45	07/31/21 22:27	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 14:15	1
Diesel Range Organics (Over C10-C28)	55.3		50.0		mg/Kg		07/31/21 10:49	08/01/21 14:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 14:15	1
Total TPH	55.3		50.0		mg/Kg		07/31/21 10:49	08/01/21 14:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				07/31/21 10:49	08/01/21 14:15	1
o-Terphenyl	117		70 - 130				07/31/21 10:49	08/01/21 14:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.2		5.04		mg/Kg			08/02/21 09:49	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-2

Lab Sample ID: 880-4538-32

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 22:47	1
Toluene	0.00324		0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 22:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 22:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 22:47	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	07/30/21 14:45	07/31/21 22:47	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/30/21 14:45	07/31/21 22:47	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 15:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 15:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 15:19	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	07/31/21 10:49	08/01/21 15:19	1
o-Terphenyl	107		70 - 130	07/31/21 10:49	08/01/21 15:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		4.98		mg/Kg			08/02/21 10:05	1

Client Sample ID: H-3

Lab Sample ID: 880-4538-33

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 23:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 23:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 23:08	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 23:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	07/31/21 23:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 23:08	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		07/30/21 14:45	07/31/21 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/30/21 14:45	07/31/21 23:08	1
1,4-Difluorobenzene (Surr)	75		70 - 130	07/30/21 14:45	07/31/21 23:08	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 15:40	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-3

Lab Sample ID: 880-4538-33

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 15:40	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 15:40	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				07/31/21 10:49	08/01/21 15:40	1
o-Terphenyl	107		70 - 130				07/31/21 10:49	08/01/21 15:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.53		4.95		mg/Kg			08/02/21 10:10	1

Client Sample ID: H-4

Lab Sample ID: 880-4538-34

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		07/30/21 14:45	07/31/21 23:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				07/30/21 14:45	07/31/21 23:28	1
1,4-Difluorobenzene (Surr)	96		70 - 130				07/30/21 14:45	07/31/21 23:28	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 16:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 16:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 16:01	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				07/31/21 10:49	08/01/21 16:01	1
o-Terphenyl	114		70 - 130				07/31/21 10:49	08/01/21 16:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.20		5.02		mg/Kg			08/02/21 10:16	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-5

Lab Sample ID: 880-4538-35

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		07/30/21 14:45	07/31/21 23:48	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		07/30/21 14:45	07/31/21 23:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	07/30/21 14:45	07/31/21 23:48	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/30/21 14:45	07/31/21 23:48	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	<49.8	U	49.8		mg/Kg		07/31/21 10:49	08/01/21 16:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		07/31/21 10:49	08/01/21 16:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		07/31/21 10:49	08/01/21 16:22	1
Total TPH	<49.8	U	49.8		mg/Kg		07/31/21 10:49	08/01/21 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	07/31/21 10:49	08/01/21 16:22	1
o-Terphenyl	97		70 - 130	07/31/21 10:49	08/01/21 16:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.99		4.97		mg/Kg			08/02/21 10:21	1

Client Sample ID: H-6

Lab Sample ID: 880-4538-36

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 00:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:09	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:09	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	07/30/21 14:45	08/01/21 00:09	1
1,4-Difluorobenzene (Surr)	91		70 - 130	07/30/21 14:45	08/01/21 00:09	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	<49.7	U	49.7		mg/Kg		07/31/21 10:49	08/01/21 16:43	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-6

Lab Sample ID: 880-4538-36

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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)	<49.7	U	49.7		mg/Kg		07/31/21 10:49	08/01/21 16:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		07/31/21 10:49	08/01/21 16:43	1
Total TPH	<49.7	U	49.7		mg/Kg		07/31/21 10:49	08/01/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				07/31/21 10:49	08/01/21 16:43	1
o-Terphenyl	114		70 - 130				07/31/21 10:49	08/01/21 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.98		mg/Kg			08/02/21 10:27	1

Client Sample ID: H-7

Lab Sample ID: 880-4538-37

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 00:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		07/30/21 14:45	08/01/21 00:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				07/30/21 14:45	08/01/21 00:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130				07/30/21 14:45	08/01/21 00:29	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 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 17:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 17:04	1
Total TPH	<49.9	U	49.9		mg/Kg		07/31/21 10:49	08/01/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				07/31/21 10:49	08/01/21 17:04	1
o-Terphenyl	107		70 - 130				07/31/21 10:49	08/01/21 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	523		5.05		mg/Kg			07/30/21 20:06	1

Eurofins Xenco, Midland

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-8

Lab Sample ID: 880-4538-38

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 00:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	08/01/21 00:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:45	08/01/21 00:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	08/01/21 00:50	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 14:45	08/01/21 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	07/30/21 14:45	08/01/21 00:50	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	07/30/21 14:45	08/01/21 00:50	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 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 17:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 17:25	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:49	08/01/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	07/31/21 10:49	08/01/21 17:25	1
o-Terphenyl	122		70 - 130	07/31/21 10:49	08/01/21 17:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		4.99		mg/Kg			07/30/21 20:22	1

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-4538-1	AH-1 (0-1')	116	94
880-4538-1 MS	AH-1 (0-1')	112	107
880-4538-1 MSD	AH-1 (0-1')	120	101
880-4538-2	AH-1 (1-1.5')	104	96
880-4538-3	AH-2 (0-1')	115	99
880-4538-4	AH-3 (0-1')	115	93
880-4538-5	AH-3 (1-1.5')	116	94
880-4538-6	AH-4 (0-1')	117	91
880-4538-7	AH-4 (1-1.5')	101	93
880-4538-8	AH-4 (2-2.5')	110	91
880-4538-9	AH-4 (3-3.5')	115	90
880-4538-10	AH-4 (4-4.5')	103	93
880-4538-11	AH-5 (0-1')	110	91
880-4538-12	AH-5 (1-1.5')	116	93
880-4538-13	AH-5 (2-2.5')	109	92
880-4538-14	AH-5 (3-3.5')	119	97
880-4538-15	AH-5 (4-4.5')	120	93
880-4538-16	AH-6 (0-1')	101	105
880-4538-17	AH-6 (1-1.5')	115	91
880-4538-18	AH-6 (2-2.5')	121	98
880-4538-19	AH-6 (3-3.5')	130	92
880-4538-20	AH-6 (4-4.5')	117	90
880-4538-31	H-1	127	105
880-4538-31 MS	H-1	118	107
880-4538-31 MSD	H-1	116	111
880-4538-32	H-2	96	94
880-4538-33	H-3	112	75
880-4538-34	H-4	116	96
880-4538-35	H-5	107	97
880-4538-36	H-6	112	91
880-4538-37	H-7	119	88
880-4538-38	H-8	117	69 S1-
LCS 880-5891/1-A	Lab Control Sample	112	103
LCS 880-5892/1-A	Lab Control Sample	117	109
LCSD 880-5891/2-A	Lab Control Sample Dup	109	101
LCSD 880-5892/2-A	Lab Control Sample Dup	124	107
MB 880-5842/5-A	Method Blank	110	94
MB 880-5858/137	Method Blank	100	92
MB 880-5891/5-A	Method Blank	130	92
MB 880-5892/5-A	Method Blank	129	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Midland

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-4538-1	AH-1 (0-1')	90	101
880-4538-1 MS	AH-1 (0-1')	83	86
880-4538-1 MSD	AH-1 (0-1')	85	88
880-4538-2	AH-1 (1-1.5')	87	99
880-4538-3	AH-2 (0-1')	86	94
880-4538-4	AH-3 (0-1')	84	89
880-4538-5	AH-3 (1-1.5')	86	92
880-4538-6	AH-4 (0-1')	85	95
880-4538-7	AH-4 (1-1.5')	86	94
880-4538-8	AH-4 (2-2.5')	89	97
880-4538-9	AH-4 (3-3.5')	86	91
880-4538-10	AH-4 (4-4.5')	88	96
880-4538-11	AH-5 (0-1')	89	97
880-4538-12	AH-5 (1-1.5')	88	95
880-4538-13	AH-5 (2-2.5')	83	92
880-4538-14	AH-5 (3-3.5')	94	103
880-4538-15	AH-5 (4-4.5')	85	93
880-4538-16	AH-6 (0-1')	82	90
880-4538-17	AH-6 (1-1.5')	86	92
880-4538-18	AH-6 (2-2.5')	85	92
880-4538-19	AH-6 (3-3.5')	85	94
880-4538-20	AH-6 (4-4.5')	85	95
880-4538-31	H-1	108	117
880-4538-31 MS	H-1	99	92
880-4538-31 MSD	H-1	99	93
880-4538-32	H-2	103	107
880-4538-33	H-3	103	107
880-4538-34	H-4	107	114
880-4538-35	H-5	89	97
880-4538-36	H-6	101	114
880-4538-37	H-7	94	107
880-4538-38	H-8	109	122
LCS 880-5921/2-A	Lab Control Sample	90	103
LCS 880-5924/2-A	Lab Control Sample	100	107
LCSD 880-5921/3-A	Lab Control Sample Dup	96	107
LCSD 880-5924/3-A	Lab Control Sample Dup	108	115
MB 880-5921/1-A	Method Blank	82	97
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: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
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 880-5858/137

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg			08/01/21 08:56	1
Toluene	<0.00200	U	0.00200		mg/Kg			08/01/21 08:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			08/01/21 08:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			08/01/21 08:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			08/01/21 08:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			08/01/21 08:56	1
Total BTEX	<0.00400	U	0.00400		mg/Kg			08/01/21 08:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		70 - 130		08/01/21 08:56	1
1,4-Difluorobenzene (Surr)	92		70 - 130		08/01/21 08:56	1

Lab Sample ID: MB 880-5891/5-A

Matrix: Solid

Analysis Batch: 5858

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5891

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/01/21 19:47	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		07/30/21 14:05	08/01/21 19:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	130		70 - 130	07/30/21 14:05	08/01/21 19:47	1
1,4-Difluorobenzene (Surr)	92		70 - 130	07/30/21 14:05	08/01/21 19:47	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-5891/1-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1013		mg/Kg		101	70 - 130
Toluene	0.100	0.09520		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.09106		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09296		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-5891/2-A
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5891

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1024		mg/Kg		102	70 - 130	1	35
Toluene	0.100	0.09632		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.09533		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1941		mg/Kg		97	70 - 130	5	35
o-Xylene	0.100	0.09746		mg/Kg		97	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-4538-1 MS
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.0998	0.08816		mg/Kg		88	70 - 130
Toluene	<0.00202	U	0.0998	0.07097		mg/Kg		70	70 - 130
Ethylbenzene	<0.00202	U F1	0.0998	0.06154	F1	mg/Kg		62	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1	0.200	0.1120	F1	mg/Kg		56	70 - 130
o-Xylene	<0.00202	U F1	0.0998	0.06378	F1	mg/Kg		64	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-4538-1 MSD
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5891

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.101	0.09176		mg/Kg		91	70 - 130	4	35
Toluene	<0.00202	U	0.101	0.08339		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00202	U F1	0.101	0.07976		mg/Kg		79	70 - 130	26	35

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-1 MSD

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

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 5858

Prep Batch: 5891

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
m-Xylene & p-Xylene	<0.00403	U F1	0.202	0.1527		mg/Kg		75	70 - 130	31	35
o-Xylene	<0.00202	U F1	0.101	0.08388		mg/Kg		83	70 - 130	27	35
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	120		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 5858

Prep Batch: 5892

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
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
MB MB									
Surrogate	%Recovery	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

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 5858

Prep Batch: 5892

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limit
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	
LCS LCS								
Surrogate	%Recovery	Qualifier	Limits					
4-Bromofluorobenzene (Surr)	117		70 - 130					
1,4-Difluorobenzene (Surr)	109		70 - 130					

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

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 5858

Prep Batch: 5892

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	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: Heart Throb

Job ID: 880-4538-1
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: 880-4538-31 MS
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: H-1
Prep Type: Total/NA
Prep Batch: 5892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
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: 880-4538-31 MSD
Matrix: Solid
Analysis Batch: 5858

Client Sample ID: H-1
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 880-5921/1-A
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 5921

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 10:20	08/01/21 13:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 13:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 13:13	1
Total TPH	<50.0	U	50.0		mg/Kg		07/31/21 10:20	08/01/21 13:13	1

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	82		70 - 130	07/31/21 10:20	08/01/21 13:13	1
o-Terphenyl	97		70 - 130	07/31/21 10:20	08/01/21 13:13	1

Lab Sample ID: LCS 880-5921/2-A
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 5921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	947.0		mg/Kg		95	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	90		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: LCSD 880-5921/3-A
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 5921

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	974.5		mg/Kg		97	70 - 130	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	96		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-4538-1 MS
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	<50.0	U	996	929.3		mg/Kg		91	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	83		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 880-4538-1 MSD
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-1 MSD
Matrix: Solid
Analysis Batch: 5932

Client Sample ID: AH-1 (0-1')
Prep Type: Total/NA
Prep Batch: 5921

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)	<50.0	U	996	959.8		mg/Kg		94	70 - 130	3	20
Surrogate	%Recovery	MSD Qualifier	Limits								
1-Chlorooctane	85		70 - 130								
o-Terphenyl	88		70 - 130								

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

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>o</i> -Terphenyl	115		70 - 130

Lab Sample ID: 880-4538-31 MS
Matrix: Solid
Analysis Batch: 5934

Client Sample ID: H-1
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
<i>o</i> -Terphenyl	92		70 - 130

Lab Sample ID: 880-4538-31 MSD
Matrix: Solid
Analysis Batch: 5934

Client Sample ID: H-1
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
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	971.9		mg/Kg		95	70 - 130	2	20
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
<i>o</i> -Terphenyl	93		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-5893/1-A
Matrix: Solid
Analysis Batch: 5906

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			07/30/21 19:49	1

Lab Sample ID: LCS 880-5893/2-A
Matrix: Solid
Analysis Batch: 5906

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	261.9		mg/Kg		105	90 - 110

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-5893/3-A
Matrix: Solid
Analysis Batch: 5906

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	261.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-4538-37 MS
Matrix: Solid
Analysis Batch: 5906

Client Sample ID: H-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	523		253	750.7		mg/Kg		90	90 - 110

Lab Sample ID: 880-4538-37 MSD
Matrix: Solid
Analysis Batch: 5906

Client Sample ID: H-7
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	523		253	749.9		mg/Kg		90	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

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: 880-4538-1 MS
Matrix: Solid
Analysis Batch: 5945

Client Sample ID: AH-1 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1400		250	1569	E 4	mg/Kg		70	90 - 110

Lab Sample ID: 880-4538-1 MSD
Matrix: Solid
Analysis Batch: 5945

Client Sample ID: AH-1 (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	1400		250	1569	E 4	mg/Kg		70	90 - 110	0	20

Eurofins Xenco, Midland

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-4538-11 MS
Matrix: Solid
Analysis Batch: 5945

Client Sample ID: AH-5 (0-1')
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: 880-4538-11 MSD
Matrix: Solid
Analysis Batch: 5945

Client Sample ID: AH-5 (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	302		250	553.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-5897/1-A
Matrix: Solid
Analysis Batch: 5955

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			08/02/21 09:00	1

Lab Sample ID: LCS 880-5897/2-A
Matrix: Solid
Analysis Batch: 5955

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.5		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-5897/3-A
Matrix: Solid
Analysis Batch: 5955

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: 880-4538-17 MS
Matrix: Solid
Analysis Batch: 5955

Client Sample ID: AH-6 (1-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2450		1240	3719		mg/Kg		103	90 - 110

Lab Sample ID: 880-4538-17 MSD
Matrix: Solid
Analysis Batch: 5955

Client Sample ID: AH-6 (1-1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2450		1240	3713		mg/Kg		102	90 - 110	0	20

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

GC VOA

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
880-4538-1	AH-1 (0-1')	Total/NA	Solid	8021B	5891
880-4538-2	AH-1 (1-1.5')	Total/NA	Solid	8021B	5891
880-4538-3	AH-2 (0-1')	Total/NA	Solid	8021B	5891
880-4538-4	AH-3 (0-1')	Total/NA	Solid	8021B	5891
880-4538-5	AH-3 (1-1.5')	Total/NA	Solid	8021B	5891
880-4538-6	AH-4 (0-1')	Total/NA	Solid	8021B	5891
880-4538-7	AH-4 (1-1.5')	Total/NA	Solid	8021B	5891
880-4538-8	AH-4 (2-2.5')	Total/NA	Solid	8021B	5891
880-4538-9	AH-4 (3-3.5')	Total/NA	Solid	8021B	5891
880-4538-10	AH-4 (4-4.5')	Total/NA	Solid	8021B	5891
880-4538-11	AH-5 (0-1')	Total/NA	Solid	8021B	5891
880-4538-12	AH-5 (1-1.5')	Total/NA	Solid	8021B	5891
880-4538-13	AH-5 (2-2.5')	Total/NA	Solid	8021B	5891
880-4538-14	AH-5 (3-3.5')	Total/NA	Solid	8021B	5891
880-4538-15	AH-5 (4-4.5')	Total/NA	Solid	8021B	5891
880-4538-16	AH-6 (0-1')	Total/NA	Solid	8021B	5891
880-4538-17	AH-6 (1-1.5')	Total/NA	Solid	8021B	5891
880-4538-18	AH-6 (2-2.5')	Total/NA	Solid	8021B	5891
880-4538-19	AH-6 (3-3.5')	Total/NA	Solid	8021B	5891
880-4538-20	AH-6 (4-4.5')	Total/NA	Solid	8021B	5891
880-4538-31	H-1	Total/NA	Solid	8021B	5892
880-4538-32	H-2	Total/NA	Solid	8021B	5892
880-4538-33	H-3	Total/NA	Solid	8021B	5892
880-4538-34	H-4	Total/NA	Solid	8021B	5892
880-4538-35	H-5	Total/NA	Solid	8021B	5892
880-4538-36	H-6	Total/NA	Solid	8021B	5892
880-4538-37	H-7	Total/NA	Solid	8021B	5892
880-4538-38	H-8	Total/NA	Solid	8021B	5892
MB 880-5842/5-A	Method Blank	Total/NA	Solid	8021B	5842
MB 880-5858/137	Method Blank	Total/NA	Solid	8021B	
MB 880-5891/5-A	Method Blank	Total/NA	Solid	8021B	5891
MB 880-5892/5-A	Method Blank	Total/NA	Solid	8021B	5892
LCS 880-5891/1-A	Lab Control Sample	Total/NA	Solid	8021B	5891
LCS 880-5892/1-A	Lab Control Sample	Total/NA	Solid	8021B	5892
LCSD 880-5891/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5891
LCSD 880-5892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	5892
880-4538-1 MS	AH-1 (0-1')	Total/NA	Solid	8021B	5891
880-4538-1 MSD	AH-1 (0-1')	Total/NA	Solid	8021B	5891
880-4538-31 MS	H-1	Total/NA	Solid	8021B	5892
880-4538-31 MSD	H-1	Total/NA	Solid	8021B	5892

Prep Batch: 5891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-1	AH-1 (0-1')	Total/NA	Solid	5035	
880-4538-2	AH-1 (1-1.5')	Total/NA	Solid	5035	
880-4538-3	AH-2 (0-1')	Total/NA	Solid	5035	
880-4538-4	AH-3 (0-1')	Total/NA	Solid	5035	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 5891 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-5	AH-3 (1-1.5')	Total/NA	Solid	5035	
880-4538-6	AH-4 (0-1')	Total/NA	Solid	5035	
880-4538-7	AH-4 (1-1.5')	Total/NA	Solid	5035	
880-4538-8	AH-4 (2-2.5')	Total/NA	Solid	5035	
880-4538-9	AH-4 (3-3.5')	Total/NA	Solid	5035	
880-4538-10	AH-4 (4-4.5')	Total/NA	Solid	5035	
880-4538-11	AH-5 (0-1')	Total/NA	Solid	5035	
880-4538-12	AH-5 (1-1.5')	Total/NA	Solid	5035	
880-4538-13	AH-5 (2-2.5')	Total/NA	Solid	5035	
880-4538-14	AH-5 (3-3.5')	Total/NA	Solid	5035	
880-4538-15	AH-5 (4-4.5')	Total/NA	Solid	5035	
880-4538-16	AH-6 (0-1')	Total/NA	Solid	5035	
880-4538-17	AH-6 (1-1.5')	Total/NA	Solid	5035	
880-4538-18	AH-6 (2-2.5')	Total/NA	Solid	5035	
880-4538-19	AH-6 (3-3.5')	Total/NA	Solid	5035	
880-4538-20	AH-6 (4-4.5')	Total/NA	Solid	5035	
MB 880-5891/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-5891/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 880-5891/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4538-1 MS	AH-1 (0-1')	Total/NA	Solid	5035	
880-4538-1 MSD	AH-1 (0-1')	Total/NA	Solid	5035	

Prep Batch: 5892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-31	H-1	Total/NA	Solid	5035	
880-4538-32	H-2	Total/NA	Solid	5035	
880-4538-33	H-3	Total/NA	Solid	5035	
880-4538-34	H-4	Total/NA	Solid	5035	
880-4538-35	H-5	Total/NA	Solid	5035	
880-4538-36	H-6	Total/NA	Solid	5035	
880-4538-37	H-7	Total/NA	Solid	5035	
880-4538-38	H-8	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	
LCS 880-5892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-4538-31 MS	H-1	Total/NA	Solid	5035	
880-4538-31 MSD	H-1	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 5921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-1	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-2	AH-1 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4538-3	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-4	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-5	AH-3 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4538-6	AH-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-7	AH-4 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4538-8	AH-4 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4538-9	AH-4 (3-3.5')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 5921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-10	AH-4 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4538-11	AH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-12	AH-5 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4538-13	AH-5 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4538-14	AH-5 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4538-15	AH-5 (4-4.5')	Total/NA	Solid	8015NM Prep	
880-4538-16	AH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-17	AH-6 (1-1.5')	Total/NA	Solid	8015NM Prep	
880-4538-18	AH-6 (2-2.5')	Total/NA	Solid	8015NM Prep	
880-4538-19	AH-6 (3-3.5')	Total/NA	Solid	8015NM Prep	
880-4538-20	AH-6 (4-4.5')	Total/NA	Solid	8015NM Prep	
MB 880-5921/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-5921/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCS 880-5921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4538-1 MS	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-4538-1 MSD	AH-1 (0-1')	Total/NA	Solid	8015NM Prep	

Prep Batch: 5924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-31	H-1	Total/NA	Solid	8015NM Prep	
880-4538-32	H-2	Total/NA	Solid	8015NM Prep	
880-4538-33	H-3	Total/NA	Solid	8015NM Prep	
880-4538-34	H-4	Total/NA	Solid	8015NM Prep	
880-4538-35	H-5	Total/NA	Solid	8015NM Prep	
880-4538-36	H-6	Total/NA	Solid	8015NM Prep	
880-4538-37	H-7	Total/NA	Solid	8015NM Prep	
880-4538-38	H-8	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	
LCS 880-5924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-4538-31 MS	H-1	Total/NA	Solid	8015NM Prep	
880-4538-31 MSD	H-1	Total/NA	Solid	8015NM Prep	

Analysis Batch: 5932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-1	AH-1 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-2	AH-1 (1-1.5')	Total/NA	Solid	8015B NM	5921
880-4538-3	AH-2 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-4	AH-3 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-5	AH-3 (1-1.5')	Total/NA	Solid	8015B NM	5921
880-4538-6	AH-4 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-7	AH-4 (1-1.5')	Total/NA	Solid	8015B NM	5921
880-4538-8	AH-4 (2-2.5')	Total/NA	Solid	8015B NM	5921
880-4538-9	AH-4 (3-3.5')	Total/NA	Solid	8015B NM	5921
880-4538-10	AH-4 (4-4.5')	Total/NA	Solid	8015B NM	5921
880-4538-11	AH-5 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-12	AH-5 (1-1.5')	Total/NA	Solid	8015B NM	5921
880-4538-13	AH-5 (2-2.5')	Total/NA	Solid	8015B NM	5921
880-4538-14	AH-5 (3-3.5')	Total/NA	Solid	8015B NM	5921
880-4538-15	AH-5 (4-4.5')	Total/NA	Solid	8015B NM	5921
880-4538-16	AH-6 (0-1')	Total/NA	Solid	8015B NM	5921

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 5932 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-17	AH-6 (1-1.5')	Total/NA	Solid	8015B NM	5921
880-4538-18	AH-6 (2-2.5')	Total/NA	Solid	8015B NM	5921
880-4538-19	AH-6 (3-3.5')	Total/NA	Solid	8015B NM	5921
880-4538-20	AH-6 (4-4.5')	Total/NA	Solid	8015B NM	5921
MB 880-5921/1-A	Method Blank	Total/NA	Solid	8015B NM	5921
LCS 880-5921/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	5921
LCSD 880-5921/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	5921
880-4538-1 MS	AH-1 (0-1')	Total/NA	Solid	8015B NM	5921
880-4538-1 MSD	AH-1 (0-1')	Total/NA	Solid	8015B NM	5921

Analysis Batch: 5934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-31	H-1	Total/NA	Solid	8015B NM	5924
880-4538-32	H-2	Total/NA	Solid	8015B NM	5924
880-4538-33	H-3	Total/NA	Solid	8015B NM	5924
880-4538-34	H-4	Total/NA	Solid	8015B NM	5924
880-4538-35	H-5	Total/NA	Solid	8015B NM	5924
880-4538-36	H-6	Total/NA	Solid	8015B NM	5924
880-4538-37	H-7	Total/NA	Solid	8015B NM	5924
880-4538-38	H-8	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
880-4538-31 MS	H-1	Total/NA	Solid	8015B NM	5924
880-4538-31 MSD	H-1	Total/NA	Solid	8015B NM	5924

HPLC/IC

Leach Batch: 5893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-37	H-7	Soluble	Solid	DI Leach	
880-4538-38	H-8	Soluble	Solid	DI Leach	
MB 880-5893/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5893/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5893/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4538-37 MS	H-7	Soluble	Solid	DI Leach	
880-4538-37 MSD	H-7	Soluble	Solid	DI Leach	

Leach Batch: 5894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-1	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4538-2	AH-1 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-3	AH-2 (0-1')	Soluble	Solid	DI Leach	
880-4538-4	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-4538-5	AH-3 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-6	AH-4 (0-1')	Soluble	Solid	DI Leach	
880-4538-7	AH-4 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-8	AH-4 (2-2.5')	Soluble	Solid	DI Leach	
880-4538-9	AH-4 (3-3.5')	Soluble	Solid	DI Leach	
880-4538-10	AH-4 (4-4.5')	Soluble	Solid	DI Leach	
880-4538-11	AH-5 (0-1')	Soluble	Solid	DI Leach	

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 5894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-12	AH-5 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-13	AH-5 (2-2.5')	Soluble	Solid	DI Leach	
880-4538-14	AH-5 (3-3.5')	Soluble	Solid	DI Leach	
880-4538-15	AH-5 (4-4.5')	Soluble	Solid	DI Leach	
880-4538-16	AH-6 (0-1')	Soluble	Solid	DI Leach	
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	
880-4538-1 MS	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4538-1 MSD	AH-1 (0-1')	Soluble	Solid	DI Leach	
880-4538-11 MS	AH-5 (0-1')	Soluble	Solid	DI Leach	
880-4538-11 MSD	AH-5 (0-1')	Soluble	Solid	DI Leach	

Leach Batch: 5897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-17	AH-6 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-18	AH-6 (2-2.5')	Soluble	Solid	DI Leach	
880-4538-19	AH-6 (3-3.5')	Soluble	Solid	DI Leach	
880-4538-20	AH-6 (4-4.5')	Soluble	Solid	DI Leach	
880-4538-31	H-1	Soluble	Solid	DI Leach	
880-4538-32	H-2	Soluble	Solid	DI Leach	
880-4538-33	H-3	Soluble	Solid	DI Leach	
880-4538-34	H-4	Soluble	Solid	DI Leach	
880-4538-35	H-5	Soluble	Solid	DI Leach	
880-4538-36	H-6	Soluble	Solid	DI Leach	
MB 880-5897/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-5897/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-5897/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-4538-17 MS	AH-6 (1-1.5')	Soluble	Solid	DI Leach	
880-4538-17 MSD	AH-6 (1-1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 5906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-37	H-7	Soluble	Solid	300.0	5893
880-4538-38	H-8	Soluble	Solid	300.0	5893
MB 880-5893/1-A	Method Blank	Soluble	Solid	300.0	5893
LCS 880-5893/2-A	Lab Control Sample	Soluble	Solid	300.0	5893
LCSD 880-5893/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5893
880-4538-37 MS	H-7	Soluble	Solid	300.0	5893
880-4538-37 MSD	H-7	Soluble	Solid	300.0	5893

Analysis Batch: 5945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-1	AH-1 (0-1')	Soluble	Solid	300.0	5894
880-4538-2	AH-1 (1-1.5')	Soluble	Solid	300.0	5894
880-4538-3	AH-2 (0-1')	Soluble	Solid	300.0	5894
880-4538-4	AH-3 (0-1')	Soluble	Solid	300.0	5894
880-4538-5	AH-3 (1-1.5')	Soluble	Solid	300.0	5894
880-4538-6	AH-4 (0-1')	Soluble	Solid	300.0	5894
880-4538-7	AH-4 (1-1.5')	Soluble	Solid	300.0	5894
880-4538-8	AH-4 (2-2.5')	Soluble	Solid	300.0	5894

Eurofins Xenco, Midland

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 5945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-9	AH-4 (3-3.5')	Soluble	Solid	300.0	5894
880-4538-10	AH-4 (4-4.5')	Soluble	Solid	300.0	5894
880-4538-11	AH-5 (0-1')	Soluble	Solid	300.0	5894
880-4538-12	AH-5 (1-1.5')	Soluble	Solid	300.0	5894
880-4538-13	AH-5 (2-2.5')	Soluble	Solid	300.0	5894
880-4538-14	AH-5 (3-3.5')	Soluble	Solid	300.0	5894
880-4538-15	AH-5 (4-4.5')	Soluble	Solid	300.0	5894
880-4538-16	AH-6 (0-1')	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
880-4538-1 MS	AH-1 (0-1')	Soluble	Solid	300.0	5894
880-4538-1 MSD	AH-1 (0-1')	Soluble	Solid	300.0	5894
880-4538-11 MS	AH-5 (0-1')	Soluble	Solid	300.0	5894
880-4538-11 MSD	AH-5 (0-1')	Soluble	Solid	300.0	5894

Analysis Batch: 5955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-4538-17	AH-6 (1-1.5')	Soluble	Solid	300.0	5897
880-4538-18	AH-6 (2-2.5')	Soluble	Solid	300.0	5897
880-4538-19	AH-6 (3-3.5')	Soluble	Solid	300.0	5897
880-4538-20	AH-6 (4-4.5')	Soluble	Solid	300.0	5897
880-4538-31	H-1	Soluble	Solid	300.0	5897
880-4538-32	H-2	Soluble	Solid	300.0	5897
880-4538-33	H-3	Soluble	Solid	300.0	5897
880-4538-34	H-4	Soluble	Solid	300.0	5897
880-4538-35	H-5	Soluble	Solid	300.0	5897
880-4538-36	H-6	Soluble	Solid	300.0	5897
MB 880-5897/1-A	Method Blank	Soluble	Solid	300.0	5897
LCS 880-5897/2-A	Lab Control Sample	Soluble	Solid	300.0	5897
LCSD 880-5897/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	5897
880-4538-17 MS	AH-6 (1-1.5')	Soluble	Solid	300.0	5897
880-4538-17 MSD	AH-6 (1-1.5')	Soluble	Solid	300.0	5897

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-4538-1

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 20:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 18:30	CH	XEN MID

Client Sample ID: AH-1 (1-1.5')

Lab Sample ID: 880-4538-2

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 20:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 18:46	CH	XEN MID

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

Lab Sample ID: 880-4538-3

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 20:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 15:40	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		5			5945	07/31/21 18:52	CH	XEN MID

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

Lab Sample ID: 880-4538-4

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 21:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 16:01	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 18:57	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-3 (1-1.5')

Lab Sample ID: 880-4538-5

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 21:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 16:22	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 19:03	CH	XEN MID

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

Lab Sample ID: 880-4538-6

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 21:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 19:19	CH	XEN MID

Client Sample ID: AH-4 (1-1.5')

Lab Sample ID: 880-4538-7

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 22:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 17:04	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 19:24	CH	XEN MID

Client Sample ID: AH-4 (2-2.5')

Lab Sample ID: 880-4538-8

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 22:32	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 17:25	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 19:30	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart ThrobJob ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-4 (3-3.5')

Lab Sample ID: 880-4538-9

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 22:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 19:35	CH	XEN MID

Client Sample ID: AH-4 (4-4.5')

Lab Sample ID: 880-4538-10

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 23:13	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 18:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 19:40	CH	XEN MID

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

Lab Sample ID: 880-4538-11

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 00:34	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 18:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 19:46	CH	XEN MID

Client Sample ID: AH-5 (1-1.5')

Lab Sample ID: 880-4538-12

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 00:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	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 20:02	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-5 (2-2.5')

Lab Sample ID: 880-4538-13

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 01:15	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		1			5945	07/31/21 20:07	CH	XEN MID

Client Sample ID: AH-5 (3-3.5')

Lab Sample ID: 880-4538-14

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 01:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	5921	07/31/21 10:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 19:51	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		5			5945	07/31/21 20:24	CH	XEN MID

Client Sample ID: AH-5 (4-4.5')

Lab Sample ID: 880-4538-15

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 01:56	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 20:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5894	07/30/21 14:14	CH	XEN MID
Soluble	Analysis	300.0		5			5945	07/31/21 20:29	CH	XEN MID

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

Lab Sample ID: 880-4538-16

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 02:16	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 20:34	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		5			5945	07/31/21 20:34	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: AH-6 (1-1.5')

Lab Sample ID: 880-4538-17

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 02:37	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 20:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		5			5955	08/02/21 09:17	CH	XEN MID

Client Sample ID: AH-6 (2-2.5')

Lab Sample ID: 880-4538-18

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 02:57	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 21:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 09:33	CH	XEN MID

Client Sample ID: AH-6 (3-3.5')

Lab Sample ID: 880-4538-19

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 03:18	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 21:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 09:38	CH	XEN MID

Client Sample ID: AH-6 (4-4.5')

Lab Sample ID: 880-4538-20

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5891	07/30/21 14:05	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/02/21 03:38	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	5921	07/31/21 10:21	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5932	08/01/21 21:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 09:43	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-1

Lab Sample ID: 880-4538-31

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 22:27	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 14:15	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 09:49	CH	XEN MID

Client Sample ID: H-2

Lab Sample ID: 880-4538-32

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 22:47	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 15:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 10:05	CH	XEN MID

Client Sample ID: H-3

Lab Sample ID: 880-4538-33

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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	07/31/21 23:08	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 15:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 10:10	CH	XEN MID

Client Sample ID: H-4

Lab Sample ID: 880-4538-34

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 23:28	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 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 10:16	CH	XEN MID

Eurofins Xenco, Midland

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
SDG: Lea County, New Mexico

Client Sample ID: H-5

Lab Sample ID: 880-4538-35

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	5892	07/30/21 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	07/31/21 23:48	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 10:21	CH	XEN MID

Client Sample ID: H-6

Lab Sample ID: 880-4538-36

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 00:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	5924	07/31/21 10:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			5934	08/01/21 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	5897	07/30/21 14:15	CH	XEN MID
Soluble	Analysis	300.0		1			5955	08/02/21 10:27	CH	XEN MID

Client Sample ID: H-7

Lab Sample ID: 880-4538-37

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 00:29	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 17:04	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	5893	07/30/21 14:08	CH	XEN MID
Soluble	Analysis	300.0		1			5906	07/30/21 20:06	CH	XEN MID

Client Sample ID: H-8

Lab Sample ID: 880-4538-38

Date Collected: 07/29/21 00:00

Matrix: Solid

Date Received: 07/30/21 13:15

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 14:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	5858	08/01/21 00:50	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 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	5893	07/30/21 14:08	CH	XEN MID
Soluble	Analysis	300.0		1			5906	07/30/21 20:22	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: Heart Throb

Job ID: 880-4538-1
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

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Method Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb

Job ID: 880-4538-1
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



Sample Summary

Client: Tetra Tech, Inc.
 Project/Site: Heart Throb

Job ID: 880-4538-1
 SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-4538-1	AH-1 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-2	AH-1 (1-1.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-3	AH-2 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-4	AH-3 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-5	AH-3 (1-1.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-6	AH-4 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-7	AH-4 (1-1.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-8	AH-4 (2-2.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-9	AH-4 (3-3.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-10	AH-4 (4-4.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-11	AH-5 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-12	AH-5 (1-1.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-13	AH-5 (2-2.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-14	AH-5 (3-3.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-15	AH-5 (4-4.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-16	AH-6 (0-1')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-17	AH-6 (1-1.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-18	AH-6 (2-2.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-19	AH-6 (3-3.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-20	AH-6 (4-4.5')	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-31	H-1	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-32	H-2	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-33	H-3	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-34	H-4	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-35	H-5	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-36	H-6	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-37	H-7	Solid	07/29/21 00:00	07/30/21 13:15
880-4538-38	H-8	Solid	07/29/21 00:00	07/30/21 13:15

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Analysis Request of Custody Record



Tetra Tech, Inc.

901 W. Wall Street, Ste 1C
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

880-4538 Chain of Custody



880-4538

Page 1 of 4

8/2/2021

Client Name		EOG Resources		Site Manager		Brittany Long	
Project Name		Heart Throb		Project #		212C-MD-02559	
Project Location (county, state)		Lea County, New Mexico		Receiving Laboratory		Eurofins	
Invoice to		Galan Kelley		Sampler Signature		Marvin Dunbar	
Comments							

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		YEAR	DATE		TIME	WATER	SOIL	HCL			
AH-1 (0-1')			7/29/2021		X					1	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
AH-1 (1-1.5')			7/29/2021		X					1	
AH-2 (0-1')			7/29/2021		X					1	
AH-3 (0-1')			7/29/2021		X					1	
AH-3 (1-1.5')			7/29/2021		X					1	
AH-4 (0-1')			7/29/2021		X					1	
AH-4 (1-1.5')			7/29/2021		X					1	
AH-4 (2-2.5')			7/29/2021		X					1	
AH-4 (3-3.5')			7/29/2021		X					1	
AH-4 (4-4.5')			7/29/2021		X					1	

Relinquished by: *M. T. [Signature]* Date: 7/30/21 Time: 1315
 Received by: *K. [Signature]* Date: 7/30/21 Time: 1315

Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: 2.0/2.5
 +0.5

REMARKS:

RUSH Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 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: Heart Throb

Project Location (county, state): Lea County, New Mexico

Project #: 212C-MD-02559

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)	ANALYSIS REQUEST (Circle or Specify Method No.)	
	YEAR	DATE	TIME	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE						
H-1		7/29/2021				X				X				1	X	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
H-2		7/29/2021				X				X				1	X	
H-3		7/29/2021				X				X				1	X	
H-4		7/29/2021				X				X				1	X	
H-5		7/29/2021				X				X				1	X	
H-6		7/29/2021				X				X				1	X	
H-7		7/29/2021				X				X				1	X	
H-8		7/29/2021				X				X				1	X	

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

ORIGINAL COPY

LAB USE ONLY

REMARKS:

RUSH Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

880-4538

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 880-4538-1
SDG Number: Lea County, New Mexico

Login Number: 4538
List Number: 1
Creator: Phillips, Kerianna

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.	False	No time on COC or sample containers
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
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	

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Environment Testing
America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-1122-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: HeartThrob Riser Spill
Revision: 1

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

Attn: Brittany Long

Authorized for release by:
8/31/2021 3:13:54 PM

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



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results through
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www.eurofinsus.com/Env

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.

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Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Laboratory Job ID: 890-1122-1
SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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

Eurofins Xenco, Carlsbad

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Job ID: 890-1122-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

**Job Narrative
890-1122-1**

REVISION

The report being provided is a revision of the original report sent on 8/23/2021. The report (revision 0) is being revised due to .

Receipt

The samples were received on 8/17/2021 4:34 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 1.6°C

GC VOA

Method 8021B: Both the LCSD/MSD failed low however since the method only requires an LCS and not an LCSD the data was reported. (LCSD 880-6736/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-6773 and analytical batch 880-6771 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: H-10 (890-1122-20). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: AH-9 1-1.5 (890-1122-13). Evidence of matrix interferences is not obvious.

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

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: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-9

Lab Sample ID: 890-1122-1

Date Collected: 08/17/21 11:30

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 09:45	08/19/21 17:12	1
Toluene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 17:12	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 17:12	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400		mg/Kg		08/19/21 09:45	08/19/21 17:12	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 17:12	1
Xylenes, Total	<0.00400	U *	0.00400		mg/Kg		08/19/21 09:45	08/19/21 17:12	1
Total BTEX	<0.00400	U * - *1	0.00400		mg/Kg		08/19/21 09:45	08/19/21 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/19/21 09:45	08/19/21 17:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/19/21 09:45	08/19/21 17:12	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		08/19/21 11:26	08/19/21 16:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 16:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 16:04	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/19/21 11:26	08/19/21 16:04	1
o-Terphenyl	110		70 - 130	08/19/21 11:26	08/19/21 16:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.0		4.98		mg/Kg			08/19/21 14:40	1

Client Sample ID: H-13

Lab Sample ID: 890-1122-2

Date Collected: 08/17/21 13:06

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/20/21 08:45	08/20/21 11:27	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/20/21 08:45	08/20/21 11:27	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/20/21 08:45	08/20/21 11:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/20/21 08:45	08/20/21 11:27	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/20/21 08:45	08/20/21 11:27	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/20/21 08:45	08/20/21 11:27	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/20/21 08:45	08/20/21 11:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/20/21 08:45	08/20/21 11:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/20/21 08:45	08/20/21 11:27	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		08/19/21 11:26	08/19/21 17:07	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-13

Lab Sample ID: 890-1122-2

Date Collected: 08/17/21 13:06

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 11:26	08/19/21 17:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 17:07	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				08/19/21 11:26	08/19/21 17:07	1
o-Terphenyl	115		70 - 130				08/19/21 11:26	08/19/21 17:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	514		5.04		mg/Kg			08/19/21 14:57	1

Client Sample ID: H-14

Lab Sample ID: 890-1122-3

Date Collected: 08/17/21 11:50

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 09:45	08/19/21 22:24	1
Toluene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
Total BTEX	<0.00398	U * - *1	0.00398		mg/Kg		08/19/21 09:45	08/19/21 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				08/19/21 09:45	08/19/21 22:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/19/21 09:45	08/19/21 22:24	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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 17:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 17:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 17:27	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				08/19/21 11:26	08/19/21 17:27	1
o-Terphenyl	112		70 - 130				08/19/21 11:26	08/19/21 17:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.5		5.01		mg/Kg			08/19/21 15:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-7 0-1

Lab Sample ID: 890-1122-4

Date Collected: 08/17/21 12:07

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 0 - 1

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		08/19/21 09:45	08/19/21 22:45	1
Toluene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 22:45	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 22:45	1
m-Xylene & p-Xylene	<0.00399	U *	0.00399		mg/Kg		08/19/21 09:45	08/19/21 22:45	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 22:45	1
Xylenes, Total	<0.00399	U *	0.00399		mg/Kg		08/19/21 09:45	08/19/21 22:45	1
Total BTEX	<0.00399	U * -1	0.00399		mg/Kg		08/19/21 09:45	08/19/21 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/19/21 09:45	08/19/21 22:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/19/21 09:45	08/19/21 22:45	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		08/19/21 11:26	08/19/21 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 17:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 17:48	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/19/21 11:26	08/19/21 17:48	1
o-Terphenyl	110		70 - 130	08/19/21 11:26	08/19/21 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		4.97		mg/Kg			08/19/21 15:08	1

Client Sample ID: AH-7 1-1.5

Lab Sample ID: 890-1122-5

Date Collected: 08/17/21 12:18

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

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		08/19/21 09:45	08/19/21 23:05	1
Toluene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 23:05	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 23:05	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/19/21 23:05	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/19/21 23:05	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/19/21 23:05	1
Total BTEX	<0.00398	U * -1	0.00398		mg/Kg		08/19/21 09:45	08/19/21 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	08/19/21 09:45	08/19/21 23:05	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/19/21 09:45	08/19/21 23:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-7 1-1.5

Lab Sample ID: 890-1122-5

Date Collected: 08/17/21 12:18

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:09	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/19/21 11:26	08/19/21 18:09	1
o-Terphenyl	102		70 - 130	08/19/21 11:26	08/19/21 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.1		4.95		mg/Kg			08/19/21 15:14	1

Client Sample ID: AH-7 2-2.5

Lab Sample ID: 890-1122-6

Date Collected: 08/17/21 12:26

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 2 - 2.5

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		08/19/21 09:45	08/19/21 23:26	1
Toluene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 23:26	1
Ethylbenzene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 23:26	1
m-Xylene & p-Xylene	<0.00400	U *	0.00400		mg/Kg		08/19/21 09:45	08/19/21 23:26	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		08/19/21 09:45	08/19/21 23:26	1
Xylenes, Total	<0.00400	U *	0.00400		mg/Kg		08/19/21 09:45	08/19/21 23:26	1
Total BTEX	<0.00400	U * - *1	0.00400		mg/Kg		08/19/21 09:45	08/19/21 23:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/19/21 09:45	08/19/21 23:26	1
1,4-Difluorobenzene (Surr)	86		70 - 130	08/19/21 09:45	08/19/21 23:26	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		08/19/21 11:26	08/19/21 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 18:29	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/19/21 11:26	08/19/21 18:29	1
o-Terphenyl	108		70 - 130	08/19/21 11:26	08/19/21 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		4.99		mg/Kg			08/19/21 15:31	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-7 3-3.5

Lab Sample ID: 890-1122-7

Date Collected: 08/17/21 12:34

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 3 - 3.5

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		08/19/21 09:45	08/19/21 23:46	1
Toluene	<0.00198	U *	0.00198		mg/Kg		08/19/21 09:45	08/19/21 23:46	1
Ethylbenzene	<0.00198	U *	0.00198		mg/Kg		08/19/21 09:45	08/19/21 23:46	1
m-Xylene & p-Xylene	<0.00396	U *	0.00396		mg/Kg		08/19/21 09:45	08/19/21 23:46	1
o-Xylene	<0.00198	U *	0.00198		mg/Kg		08/19/21 09:45	08/19/21 23:46	1
Xylenes, Total	<0.00396	U *	0.00396		mg/Kg		08/19/21 09:45	08/19/21 23:46	1
Total BTEX	<0.00396	U * -1	0.00396		mg/Kg		08/19/21 09:45	08/19/21 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/19/21 09:45	08/19/21 23:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/19/21 09:45	08/19/21 23:46	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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:49	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/19/21 11:26	08/19/21 18:49	1
o-Terphenyl	113		70 - 130	08/19/21 11:26	08/19/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		4.95		mg/Kg			08/19/21 15:36	1

Client Sample ID: AH-8 0-1

Lab Sample ID: 890-1122-8

Date Collected: 08/17/21 10:16

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 0 - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *	0.00202		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
Toluene	<0.00202	U *	0.00202		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
Ethylbenzene	<0.00202	U *	0.00202		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
m-Xylene & p-Xylene	<0.00404	U *	0.00404		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
Xylenes, Total	<0.00404	U *	0.00404		mg/Kg		08/19/21 09:45	08/20/21 00:06	1
Total BTEX	<0.00404	U * -1	0.00404		mg/Kg		08/19/21 09:45	08/20/21 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	08/19/21 09:45	08/20/21 00:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/19/21 09:45	08/20/21 00:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-8 0-1

Lab Sample ID: 890-1122-8

Date Collected: 08/17/21 10:16

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 0 - 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		08/19/21 11:26	08/19/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:10	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/19/21 11:26	08/19/21 19:10	1
o-Terphenyl	105		70 - 130	08/19/21 11:26	08/19/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.2		4.95		mg/Kg			08/19/21 15:42	1

Client Sample ID: AH-8 1-1.5

Lab Sample ID: 890-1122-9

Date Collected: 08/17/21 10:20

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

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		08/19/21 09:45	08/20/21 00:27	1
Toluene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/20/21 00:27	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/20/21 00:27	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/20/21 00:27	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		08/19/21 09:45	08/20/21 00:27	1
Xylenes, Total	<0.00398	U *	0.00398		mg/Kg		08/19/21 09:45	08/20/21 00:27	1
Total BTEX	<0.00398	U * - *1	0.00398		mg/Kg		08/19/21 09:45	08/20/21 00:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/19/21 09:45	08/20/21 00:27	1
1,4-Difluorobenzene (Surr)	73		70 - 130	08/19/21 09:45	08/20/21 00:27	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		08/19/21 11:26	08/19/21 19:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:30	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 19:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/19/21 11:26	08/19/21 19:30	1
o-Terphenyl	108		70 - 130	08/19/21 11:26	08/19/21 19:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.4		5.04		mg/Kg			08/19/21 15:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-8 2-2.5

Lab Sample ID: 890-1122-10

Date Collected: 08/17/21 10:25

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 2 - 2.5

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		08/19/21 09:45	08/20/21 00:47	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		08/19/21 09:45	08/20/21 00:47	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		08/19/21 09:45	08/20/21 00:47	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		08/19/21 09:45	08/20/21 00:47	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		08/19/21 09:45	08/20/21 00:47	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		08/19/21 09:45	08/20/21 00:47	1
Total BTEX	<0.00402	U *- *1	0.00402		mg/Kg		08/19/21 09:45	08/20/21 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	08/19/21 09:45	08/20/21 00:47	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/19/21 09:45	08/20/21 00:47	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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 19:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 19:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 19:50	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	08/19/21 11:26	08/19/21 19:50	1
o-Terphenyl	110		70 - 130	08/19/21 11:26	08/19/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.9		5.01		mg/Kg			08/19/21 15:53	1

Client Sample ID: AH-8 3-3.5

Lab Sample ID: 890-1122-11

Date Collected: 08/17/21 10:30

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 3 - 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
Toluene	<0.00200	U F2 F1	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
Ethylbenzene	<0.00200	U F2 F1	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.00400		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
Xylenes, Total	<0.00400	U F2 F1	0.00400		mg/Kg		08/19/21 09:40	08/20/21 04:08	1
Total BTEX	<0.00400	U F2 F1	0.00400		mg/Kg		08/19/21 09:40	08/20/21 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/19/21 09:40	08/20/21 04:08	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/19/21 09:40	08/20/21 04:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-8 3-3.5

Lab Sample ID: 890-1122-11

Date Collected: 08/17/21 10:30

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 3 - 3.5

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		08/19/21 11:26	08/19/21 20:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:29	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	08/19/21 11:26	08/19/21 20:29	1
o-Terphenyl	114		70 - 130	08/19/21 11:26	08/19/21 20:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.99		mg/Kg			08/19/21 15:59	1

Client Sample ID: AH-9 0-1

Lab Sample ID: 890-1122-12

Date Collected: 08/17/21 10:49

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 0 - 1

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		08/19/21 09:40	08/20/21 04:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 04:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 04:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 04:29	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/19/21 09:40	08/20/21 04:29	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/19/21 09:40	08/20/21 04:29	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		08/19/21 11:26	08/19/21 20:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:49	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/19/21 11:26	08/19/21 20:49	1
o-Terphenyl	107		70 - 130	08/19/21 11:26	08/19/21 20:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.5		5.00		mg/Kg			08/19/21 16:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-9 1-1.5

Lab Sample ID: 890-1122-13

Date Collected: 08/17/21 10:52

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

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		08/19/21 09:40	08/20/21 04:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 04:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 04:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 04:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 04:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 04:49	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 04:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	08/19/21 09:40	08/20/21 04:49	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/19/21 09:40	08/20/21 04:49	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		08/19/21 11:26	08/19/21 21:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:09	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	08/19/21 11:26	08/19/21 21:09	1
o-Terphenyl	107		70 - 130	08/19/21 11:26	08/19/21 21:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.1		5.00		mg/Kg			08/19/21 16:21	1

Client Sample ID: AH-9 2-2.5

Lab Sample ID: 890-1122-14

Date Collected: 08/17/21 10:56

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 2 - 2.5

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		08/19/21 09:40	08/20/21 05:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/19/21 09:40	08/20/21 05:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/19/21 09:40	08/20/21 05:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/19/21 09:40	08/20/21 05:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/19/21 09:40	08/20/21 05:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/19/21 09:40	08/20/21 05:10	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		08/19/21 09:40	08/20/21 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/19/21 09:40	08/20/21 05:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/19/21 09:40	08/20/21 05:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-9 2-2.5

Lab Sample ID: 890-1122-14

Date Collected: 08/17/21 10:56

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 2 - 2.5

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		08/19/21 11:26	08/19/21 21:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:29	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 21:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	08/19/21 11:26	08/19/21 21:29	1
o-Terphenyl	112		70 - 130	08/19/21 11:26	08/19/21 21:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.0		4.97		mg/Kg			08/19/21 16:38	1

Client Sample ID: AH-9 3-3.5

Lab Sample ID: 890-1122-15

Date Collected: 08/17/21 11:07

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 3 - 3.5

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		08/19/21 09:40	08/20/21 05:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:30	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/19/21 09:40	08/20/21 05:30	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/19/21 09:40	08/20/21 05:30	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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 21:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 21:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 21:48	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 21:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/19/21 11:26	08/19/21 21:48	1
o-Terphenyl	108		70 - 130	08/19/21 11:26	08/19/21 21:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		4.98		mg/Kg			08/19/21 16:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-10 0-1

Lab Sample ID: 890-1122-16

Date Collected: 08/17/21 12:29

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 0 - 1

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		08/19/21 09:40	08/20/21 05:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/19/21 09:40	08/20/21 05:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:51	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		08/19/21 09:40	08/20/21 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/19/21 09:40	08/20/21 05:51	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/19/21 09:40	08/20/21 05:51	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		08/19/21 11:26	08/19/21 22:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 22:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 22:08	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 11:26	08/19/21 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/19/21 11:26	08/19/21 22:08	1
o-Terphenyl	109		70 - 130	08/19/21 11:26	08/19/21 22:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.1		5.00		mg/Kg			08/19/21 16:49	1

Client Sample ID: AH-10 1-1.5

Lab Sample ID: 890-1122-17

Date Collected: 08/17/21 12:35

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/19/21 09:40	08/20/21 06:11	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		08/19/21 09:40	08/20/21 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/19/21 09:40	08/20/21 06:11	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/19/21 09:40	08/20/21 06:11	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-10 1-1.5

Lab Sample ID: 890-1122-17

Date Collected: 08/17/21 12:35

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 1 - 1.5

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		08/19/21 11:26	08/19/21 22:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 22:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 22:28	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	08/19/21 11:26	08/19/21 22:28	1
o-Terphenyl	110		70 - 130	08/19/21 11:26	08/19/21 22:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.4		5.04		mg/Kg			08/19/21 16:55	1

Client Sample ID: AH-10 2-2.5

Lab Sample ID: 890-1122-18

Date Collected: 08/17/21 12:38

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 2 - 2.5

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		08/19/21 09:40	08/20/21 06:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 06:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 06:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 06:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 06:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 06:31	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	08/19/21 09:40	08/20/21 06:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/19/21 09:40	08/20/21 06:31	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	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 22:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 22:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 22:48	1
Total TPH	<49.8	U	49.8		mg/Kg		08/19/21 11:26	08/19/21 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/19/21 11:26	08/19/21 22:48	1
o-Terphenyl	104		70 - 130	08/19/21 11:26	08/19/21 22:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.5		5.01		mg/Kg			08/19/21 17:01	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-10 3-3.5

Lab Sample ID: 890-1122-19

Date Collected: 08/17/21 12:46

Matrix: Solid

Date Received: 08/17/21 16:34

Sample Depth: 3 - 3.5

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		08/19/21 09:40	08/20/21 06:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/19/21 09:40	08/20/21 06:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/19/21 09:40	08/20/21 06:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/19/21 09:40	08/20/21 06:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/19/21 09:40	08/20/21 06:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/19/21 09:40	08/20/21 06:52	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		08/19/21 09:40	08/20/21 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/19/21 09:40	08/20/21 06:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/19/21 09:40	08/20/21 06:52	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		08/19/21 11:26	08/19/21 23:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:08	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	08/19/21 11:26	08/19/21 23:08	1
o-Terphenyl	111		70 - 130	08/19/21 11:26	08/19/21 23:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		4.98		mg/Kg			08/19/21 17:06	1

Client Sample ID: H-10

Lab Sample ID: 890-1122-20

Date Collected: 08/17/21 13:41

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 09:40	08/20/21 07:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 07:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 07:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 07:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 07:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 07:12	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	08/19/21 09:40	08/20/21 07:12	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/19/21 09:40	08/20/21 07:12	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		08/19/21 11:26	08/19/21 23:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-10

Lab Sample ID: 890-1122-20

Date Collected: 08/17/21 13:41

Matrix: Solid

Date Received: 08/17/21 16:34

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)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:27	1
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/19/21 11:26	08/19/21 23:27	1
o-Terphenyl	107		70 - 130				08/19/21 11:26	08/19/21 23:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1		4.95		mg/Kg			08/19/21 17:12	1

Client Sample ID: H-11

Lab Sample ID: 890-1122-21

Date Collected: 08/17/21 12:53

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 09:40	08/20/21 08:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		08/19/21 09:40	08/20/21 08:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/19/21 09:40	08/20/21 08:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/19/21 09:40	08/20/21 08:35	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		08/19/21 16:40	08/19/21 18:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/19/21 16:40	08/19/21 18:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/19/21 16:40	08/19/21 18:51	1
Total TPH	<49.9	U	49.9		mg/Kg		08/19/21 16:40	08/19/21 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				08/19/21 16:40	08/19/21 18:51	1
o-Terphenyl	128		70 - 130				08/19/21 16:40	08/19/21 18:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		5.00		mg/Kg			08/20/21 11:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-12

Lab Sample ID: 890-1122-22

Date Collected: 08/17/21 10:44

Matrix: Solid

Date Received: 08/17/21 16:34

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		08/19/21 09:40	08/20/21 08:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/19/21 09:40	08/20/21 08:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 08:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/19/21 09:40	08/20/21 08:55	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		08/19/21 09:40	08/20/21 08:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	08/19/21 09:40	08/20/21 08:55	1
1,4-Difluorobenzene (Surr)	96		70 - 130	08/19/21 09:40	08/20/21 08:55	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	<49.9	U	49.9		mg/Kg		08/30/21 09:17	08/30/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/30/21 09:17	08/30/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/30/21 09:17	08/30/21 17:34	1
Total TPH	<49.9	U	49.9		mg/Kg		08/30/21 09:17	08/30/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	08/30/21 09:17	08/30/21 17:34	1
o-Terphenyl	129		70 - 130	08/30/21 09:17	08/30/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		4.98		mg/Kg			08/20/21 11:14	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-1122-1	H-9	119	98
890-1122-2	H-13	107	99
890-1122-2 MS	H-13	90	110
890-1122-2 MSD	H-13	81	99
890-1122-3	H-14	127	91
890-1122-4	AH-7 0-1	122	98
890-1122-5	AH-7 1-1.5	129	96
890-1122-6	AH-7 2-2.5	104	86
890-1122-7	AH-7 3-3.5	125	91
890-1122-8	AH-8 0-1	125	80
890-1122-9	AH-8 1-1.5	115	73
890-1122-10	AH-8 2-2.5	131 S1+	98
890-1122-11	AH-8 3-3.5	128	94
890-1122-11 MS	AH-8 3-3.5	123	99
890-1122-11 MSD	AH-8 3-3.5	331 S1+	282 S1+
890-1122-12	AH-9 0-1	128	90
890-1122-13	AH-9 1-1.5	140 S1+	99
890-1122-14	AH-9 2-2.5	126	89
890-1122-15	AH-9 3-3.5	124	94
890-1122-16	AH-10 0-1	119	92
890-1122-17	AH-10 1-1.5	126	96
890-1122-18	AH-10 2-2.5	126	95
890-1122-19	AH-10 3-3.5	122	93
890-1122-20	H-10	136 S1+	98
890-1122-21	H-11	107	100
890-1122-22	H-12	115	96
LCS 880-6736/1-A	Lab Control Sample	105	102
LCS 880-6773/1-A	Lab Control Sample	111	103
LCS 880-6818/1-A	Lab Control Sample	98	126
LCSD 880-6736/2-A	Lab Control Sample Dup	94	98
LCSD 880-6773/2-A	Lab Control Sample Dup	117	102
LCSD 880-6818/2-A	Lab Control Sample Dup	88	117
MB 880-6736/5-A	Method Blank	93	93
MB 880-6773/5-A	Method Blank	94	94
MB 880-6818/5-A	Method Blank	62 S1-	99

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-5232-A-1-C MS	Matrix Spike	98	96
880-5232-A-1-D MSD	Matrix Spike Duplicate	96	94
890-1122-1	H-9	106	110
890-1122-1 MS	H-9	108	101

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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)
890-1122-1 MSD	H-9	103	102
890-1122-2	H-13	114	115
890-1122-3	H-14	111	112
890-1122-4	AH-7 0-1	107	110
890-1122-5	AH-7 1-1.5	100	102
890-1122-6	AH-7 2-2.5	105	108
890-1122-7	AH-7 3-3.5	111	113
890-1122-8	AH-8 0-1	103	105
890-1122-9	AH-8 1-1.5	102	108
890-1122-10	AH-8 2-2.5	107	110
890-1122-11	AH-8 3-3.5	111	114
890-1122-12	AH-9 0-1	104	107
890-1122-13	AH-9 1-1.5	103	107
890-1122-14	AH-9 2-2.5	110	112
890-1122-15	AH-9 3-3.5	104	108
890-1122-16	AH-10 0-1	105	109
890-1122-17	AH-10 1-1.5	106	110
890-1122-18	AH-10 2-2.5	99	104
890-1122-19	AH-10 3-3.5	108	111
890-1122-20	H-10	102	107
890-1122-21	H-11	109	128
890-1122-22	H-12	113	129
890-1183-A-1-C MS	Matrix Spike	90	89
890-1183-A-1-D MSD	Matrix Spike Duplicate	90	90
LCS 880-6751/2-A	Lab Control Sample	93	93
LCS 880-6791/2-A	Lab Control Sample	106	106
LCS 880-7251/2-A	Lab Control Sample	90	92
LCSD 880-6751/3-A	Lab Control Sample Dup	106	110
LCSD 880-6791/3-A	Lab Control Sample Dup	100	101
LCSD 880-7251/3-A	Lab Control Sample Dup	90	93
MB 880-6751/1-A	Method Blank	120	131 S1+
MB 880-6791/1-A	Method Blank	113	124
MB 880-7251/1-A	Method Blank	89	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-6736/5-A
Matrix: Solid
Analysis Batch: 6771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6736

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/21 09:45	08/19/21 12:25	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/19/21 09:45	08/19/21 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/19/21 09:45	08/19/21 12:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/19/21 09:45	08/19/21 12:25	1

Lab Sample ID: LCS 880-6736/1-A
Matrix: Solid
Analysis Batch: 6771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6736

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07762		mg/Kg		78	70 - 130
Toluene	0.100	0.07611		mg/Kg		76	70 - 130
Ethylbenzene	0.100	0.07854		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1641		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08208		mg/Kg		82	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-6736/2-A
Matrix: Solid
Analysis Batch: 6771

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6736

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.06115	*-	mg/Kg		61	70 - 130	24	35
Toluene	0.100	0.06230	*-	mg/Kg		62	70 - 130	20	35
Ethylbenzene	0.100	0.06704	*-	mg/Kg		67	70 - 130	16	35
m-Xylene & p-Xylene	0.200	0.1355	*-	mg/Kg		68	70 - 130	19	35
o-Xylene	0.100	0.06335	*-	mg/Kg		63	70 - 130	26	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-6773/5-A
Matrix: Solid
Analysis Batch: 6771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 03:47	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

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

Lab Sample ID: MB 880-6773/5-A
 Matrix: Solid
 Analysis Batch: 6771

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 6773

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 03:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 03:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 03:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/19/21 09:40	08/20/21 03:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 03:47	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/19/21 09:40	08/20/21 03:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/19/21 09:40	08/20/21 03:47	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/19/21 09:40	08/20/21 03:47	1

Lab Sample ID: LCS 880-6773/1-A
 Matrix: Solid
 Analysis Batch: 6771

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 6773

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08238		mg/Kg		82	70 - 130
Toluene	0.100	0.07851		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.08240		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1670		mg/Kg		83	70 - 130
o-Xylene	0.100	0.08497		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-6773/2-A
 Matrix: Solid
 Analysis Batch: 6771

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 6773

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08245		mg/Kg		82	70 - 130	0	35
Toluene	0.100	0.08173		mg/Kg		82	70 - 130	4	35
Ethylbenzene	0.100	0.08551		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1749		mg/Kg		87	70 - 130	5	35
o-Xylene	0.100	0.08925		mg/Kg		89	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-1122-11 MS
 Matrix: Solid
 Analysis Batch: 6771

Client Sample ID: AH-8 3-3.5
 Prep Type: Total/NA
 Prep Batch: 6773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.100	0.07116		mg/Kg		71	70 - 130
Toluene	<0.00200	U F2 F1	0.100	0.07013		mg/Kg		70	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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

Lab Sample ID: 890-1122-11 MS

Client Sample ID: AH-8 3-3.5

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 6771

Prep Batch: 6773

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F2 F1	0.100	0.07172		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.200	0.1468		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U F2 F1	0.100	0.07482		mg/Kg		74	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1122-11 MSD

Client Sample ID: AH-8 3-3.5

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 6771

Prep Batch: 6773

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U F2 F1	0.0996	0.2042	F1 F2	mg/Kg		205	70 - 130	97	35
Toluene	<0.00200	U F2 F1	0.0996	0.2006	F1 F2	mg/Kg		201	70 - 130	96	35
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.2013	F1 F2	mg/Kg		202	70 - 130	95	35
m-Xylene & p-Xylene	<0.00400	U F2 F1	0.199	0.4121	F1 F2	mg/Kg		207	70 - 130	95	35
o-Xylene	<0.00200	U F2 F1	0.0996	0.2090	F1 F2	mg/Kg		209	70 - 130	95	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	331	S1+	70 - 130
1,4-Difluorobenzene (Surr)	282	S1+	70 - 130

Lab Sample ID: MB 880-6818/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 6776

Prep Batch: 6818

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/20/21 08:45	08/20/21 11:01	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		08/20/21 08:45	08/20/21 11:01	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130	08/20/21 08:45	08/20/21 11:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/20/21 08:45	08/20/21 11:01	1

Lab Sample ID: LCS 880-6818/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 6776

Prep Batch: 6818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1048		mg/Kg		105	70 - 130
Toluene	0.100	0.1025		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1055		mg/Kg		105	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-6818/1-A

Matrix: Solid

Analysis Batch: 6776

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 6818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	0.200	0.2099		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1046		mg/Kg		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	98		70 - 130				
1,4-Difluorobenzene (Surr)	126		70 - 130				

Lab Sample ID: LCSD 880-6818/2-A

Matrix: Solid

Analysis Batch: 6776

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 6818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09970		mg/Kg		100	70 - 130	5	35
Toluene	0.100	0.09858		mg/Kg		99	70 - 130	4	35
Ethylbenzene	0.100	0.1002		mg/Kg		100	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1992		mg/Kg		100	70 - 130	5	35
o-Xylene	0.100	0.09836		mg/Kg		98	70 - 130	6	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	88		70 - 130						
1,4-Difluorobenzene (Surr)	117		70 - 130						

Lab Sample ID: 890-1122-2 MS

Matrix: Solid

Analysis Batch: 6776

Client Sample ID: H-13

Prep Type: Total/NA

Prep Batch: 6818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00198	U	0.101	0.1084		mg/Kg		107	70 - 130
Toluene	<0.00198	U	0.101	0.1072		mg/Kg		106	70 - 130
Ethylbenzene	<0.00198	U	0.101	0.1078		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2118		mg/Kg		105	70 - 130
o-Xylene	<0.00198	U	0.101	0.1005		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		70 - 130						
1,4-Difluorobenzene (Surr)	110		70 - 130						

Lab Sample ID: 890-1122-2 MSD

Matrix: Solid

Analysis Batch: 6776

Client Sample ID: H-13

Prep Type: Total/NA

Prep Batch: 6818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00198	U	0.100	0.08509		mg/Kg		85	70 - 130	24	35
Toluene	<0.00198	U	0.100	0.09168		mg/Kg		92	70 - 130	16	35
Ethylbenzene	<0.00198	U	0.100	0.09305		mg/Kg		93	70 - 130	15	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1846		mg/Kg		92	70 - 130	14	35
o-Xylene	<0.00198	U	0.100	0.08880		mg/Kg		89	70 - 130	12	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

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

Lab Sample ID: 890-1122-2 MSD
 Matrix: Solid
 Analysis Batch: 6776

Client Sample ID: H-13
 Prep Type: Total/NA
 Prep Batch: 6818

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-6751/1-A
 Matrix: Solid
 Analysis Batch: 6802

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 6751

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		08/18/21 15:17	08/19/21 13:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/18/21 15:17	08/19/21 13:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/18/21 15:17	08/19/21 13:30	1
Total TPH	<50.0	U	50.0		mg/Kg		08/18/21 15:17	08/19/21 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	08/18/21 15:17	08/19/21 13:30	1
o-Terphenyl	131	S1+	70 - 130	08/18/21 15:17	08/19/21 13:30	1

Lab Sample ID: LCS 880-6751/2-A
 Matrix: Solid
 Analysis Batch: 6802

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 6751

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	808.8		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	1000	926.3		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-6751/3-A
 Matrix: Solid
 Analysis Batch: 6802

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 6751

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	815.9		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1085		mg/Kg		108	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	110		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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

Lab Sample ID: 880-5232-A-1-C MS
Matrix: Solid
Analysis Batch: 6802

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 6751

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	995	803.1		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	964.9		mg/Kg		97	70 - 130
		MS	MS						
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 880-5232-A-1-D MSD
Matrix: Solid
Analysis Batch: 6802

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 6751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	821.9		mg/Kg		78	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	950.9		mg/Kg		95	70 - 130	1	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	96		70 - 130								
o-Terphenyl	94		70 - 130								

Lab Sample ID: MB 880-6791/1-A
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 6791

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		08/19/21 11:26	08/19/21 15:02	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 15:02	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 15:02	1	
Total TPH	<50.0	U	50.0		mg/Kg		08/19/21 11:26	08/19/21 15:02	1	
		MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1-Chlorooctane	113		70 - 130	08/19/21 11:26	08/19/21 15:02	1				
o-Terphenyl	124		70 - 130	08/19/21 11:26	08/19/21 15:02	1				

Lab Sample ID: LCS 880-6791/2-A
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6791

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	859.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	909.4		mg/Kg		91	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

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

Lab Sample ID: LCS 880-6791/2-A
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 6791

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: LCSD 880-6791/3-A
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 6791

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	830.0		mg/Kg		83	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	841.7		mg/Kg		84	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-1122-1 MS
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: H-9
Prep Type: Total/NA
Prep Batch: 6791

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	995	1099		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	985.1		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-1122-1 MSD
Matrix: Solid
Analysis Batch: 6806

Client Sample ID: H-9
Prep Type: Total/NA
Prep Batch: 6791

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1079		mg/Kg		103	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	952.5		mg/Kg		95	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	102		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-7251/1-A
Matrix: Solid
Analysis Batch: 7247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 7251

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		08/30/21 09:17	08/30/21 10:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/30/21 09:17	08/30/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/30/21 09:17	08/30/21 10:36	1
Total TPH	<50.0	U	50.0		mg/Kg		08/30/21 09:17	08/30/21 10:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	08/30/21 09:17	08/30/21 10:36	1
o-Terphenyl	98		70 - 130	08/30/21 09:17	08/30/21 10:36	1

Lab Sample ID: LCS 880-7251/2-A
Matrix: Solid
Analysis Batch: 7247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 7251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	828.4		mg/Kg		83	70 - 130
Diesel Range Organics (Over C10-C28)	1000	905.0		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-7251/3-A
Matrix: Solid
Analysis Batch: 7247

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 7251

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	821.2		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	896.8		mg/Kg		90	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1183-A-1-C MS
Matrix: Solid
Analysis Batch: 7247

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 7251

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	995	856.4		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	995	858.2		mg/Kg		86	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

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

Lab Sample ID: 890-1183-A-1-C MS
 Matrix: Solid
 Analysis Batch: 7247

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 7251

Surrogate	%Recovery	MS MS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-1183-A-1-D MSD
 Matrix: Solid
 Analysis Batch: 7247

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 7251

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	876.6		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	867.3		mg/Kg		87	70 - 130	1	20

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	90		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-6747/1-A
 Matrix: Solid
 Analysis Batch: 6812

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			08/19/21 14:23	1

Lab Sample ID: LCS 880-6747/2-A
 Matrix: Solid
 Analysis Batch: 6812

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.7		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-6747/3-A
 Matrix: Solid
 Analysis Batch: 6812

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	250.9		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1122-1 MS
 Matrix: Solid
 Analysis Batch: 6812

Client Sample ID: H-9
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	28.0		249	284.4		mg/Kg		103	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1122-1 MSD
Matrix: Solid
Analysis Batch: 6812

Client Sample ID: H-9
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	28.0		249	284.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-1122-11 MS
Matrix: Solid
Analysis Batch: 6812

Client Sample ID: AH-8 3-3.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.9		250	281.7		mg/Kg		104	90 - 110		

Lab Sample ID: 890-1122-11 MSD
Matrix: Solid
Analysis Batch: 6812

Client Sample ID: AH-8 3-3.5
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22.9		250	281.2		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-6817/1-A
Matrix: Solid
Analysis Batch: 6822

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			08/20/21 08:54	1

Lab Sample ID: LCS 880-6817/2-A
Matrix: Solid
Analysis Batch: 6822

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	252.5		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-6817/3-A
Matrix: Solid
Analysis Batch: 6822

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	253.0		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-5271-A-3-C MS
Matrix: Solid
Analysis Batch: 6822

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	213		250	456.5		mg/Kg		98	90 - 110		

Lab Sample ID: 880-5271-A-3-D MSD
Matrix: Solid
Analysis Batch: 6822

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	213		250	458.3		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

GC VOA

Prep Batch: 6736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Total/NA	Solid	5035	
890-1122-3	H-14	Total/NA	Solid	5035	
890-1122-4	AH-7 0-1	Total/NA	Solid	5035	
890-1122-5	AH-7 1-1.5	Total/NA	Solid	5035	
890-1122-6	AH-7 2-2.5	Total/NA	Solid	5035	
890-1122-7	AH-7 3-3.5	Total/NA	Solid	5035	
890-1122-8	AH-8 0-1	Total/NA	Solid	5035	
890-1122-9	AH-8 1-1.5	Total/NA	Solid	5035	
890-1122-10	AH-8 2-2.5	Total/NA	Solid	5035	
MB 880-6736/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6736/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6736/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 6771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Total/NA	Solid	8021B	6736
890-1122-3	H-14	Total/NA	Solid	8021B	6736
890-1122-4	AH-7 0-1	Total/NA	Solid	8021B	6736
890-1122-5	AH-7 1-1.5	Total/NA	Solid	8021B	6736
890-1122-6	AH-7 2-2.5	Total/NA	Solid	8021B	6736
890-1122-7	AH-7 3-3.5	Total/NA	Solid	8021B	6736
890-1122-8	AH-8 0-1	Total/NA	Solid	8021B	6736
890-1122-9	AH-8 1-1.5	Total/NA	Solid	8021B	6736
890-1122-10	AH-8 2-2.5	Total/NA	Solid	8021B	6736
890-1122-11	AH-8 3-3.5	Total/NA	Solid	8021B	6773
890-1122-12	AH-9 0-1	Total/NA	Solid	8021B	6773
890-1122-13	AH-9 1-1.5	Total/NA	Solid	8021B	6773
890-1122-14	AH-9 2-2.5	Total/NA	Solid	8021B	6773
890-1122-15	AH-9 3-3.5	Total/NA	Solid	8021B	6773
890-1122-16	AH-10 0-1	Total/NA	Solid	8021B	6773
890-1122-17	AH-10 1-1.5	Total/NA	Solid	8021B	6773
890-1122-18	AH-10 2-2.5	Total/NA	Solid	8021B	6773
890-1122-19	AH-10 3-3.5	Total/NA	Solid	8021B	6773
890-1122-20	H-10	Total/NA	Solid	8021B	6773
890-1122-21	H-11	Total/NA	Solid	8021B	6773
890-1122-22	H-12	Total/NA	Solid	8021B	6773
MB 880-6736/5-A	Method Blank	Total/NA	Solid	8021B	6736
MB 880-6773/5-A	Method Blank	Total/NA	Solid	8021B	6773
LCS 880-6736/1-A	Lab Control Sample	Total/NA	Solid	8021B	6736
LCS 880-6773/1-A	Lab Control Sample	Total/NA	Solid	8021B	6773
LCSD 880-6736/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6736
LCSD 880-6773/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6773
890-1122-11 MS	AH-8 3-3.5	Total/NA	Solid	8021B	6773
890-1122-11 MSD	AH-8 3-3.5	Total/NA	Solid	8021B	6773

Prep Batch: 6773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-11	AH-8 3-3.5	Total/NA	Solid	5035	
890-1122-12	AH-9 0-1	Total/NA	Solid	5035	
890-1122-13	AH-9 1-1.5	Total/NA	Solid	5035	
890-1122-14	AH-9 2-2.5	Total/NA	Solid	5035	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 6773 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-15	AH-9 3-3.5	Total/NA	Solid	5035	
890-1122-16	AH-10 0-1	Total/NA	Solid	5035	
890-1122-17	AH-10 1-1.5	Total/NA	Solid	5035	
890-1122-18	AH-10 2-2.5	Total/NA	Solid	5035	
890-1122-19	AH-10 3-3.5	Total/NA	Solid	5035	
890-1122-20	H-10	Total/NA	Solid	5035	
890-1122-21	H-11	Total/NA	Solid	5035	
890-1122-22	H-12	Total/NA	Solid	5035	
MB 880-6773/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6773/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6773/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1122-11 MS	AH-8 3-3.5	Total/NA	Solid	5035	
890-1122-11 MSD	AH-8 3-3.5	Total/NA	Solid	5035	

Analysis Batch: 6776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-2	H-13	Total/NA	Solid	8021B	6818
MB 880-6818/5-A	Method Blank	Total/NA	Solid	8021B	6818
LCS 880-6818/1-A	Lab Control Sample	Total/NA	Solid	8021B	6818
LCSD 880-6818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	6818
890-1122-2 MS	H-13	Total/NA	Solid	8021B	6818
890-1122-2 MSD	H-13	Total/NA	Solid	8021B	6818

Prep Batch: 6818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-2	H-13	Total/NA	Solid	5035	
MB 880-6818/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-6818/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-6818/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1122-2 MS	H-13	Total/NA	Solid	5035	
890-1122-2 MSD	H-13	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 6751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-21	H-11	Total/NA	Solid	8015NM Prep	
MB 880-6751/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6751/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-5232-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-5232-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 6791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Total/NA	Solid	8015NM Prep	
890-1122-2	H-13	Total/NA	Solid	8015NM Prep	
890-1122-3	H-14	Total/NA	Solid	8015NM Prep	
890-1122-4	AH-7 0-1	Total/NA	Solid	8015NM Prep	
890-1122-5	AH-7 1-1.5	Total/NA	Solid	8015NM Prep	
890-1122-6	AH-7 2-2.5	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 6791 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-7	AH-7 3-3.5	Total/NA	Solid	8015NM Prep	
890-1122-8	AH-8 0-1	Total/NA	Solid	8015NM Prep	
890-1122-9	AH-8 1-1.5	Total/NA	Solid	8015NM Prep	
890-1122-10	AH-8 2-2.5	Total/NA	Solid	8015NM Prep	
890-1122-11	AH-8 3-3.5	Total/NA	Solid	8015NM Prep	
890-1122-12	AH-9 0-1	Total/NA	Solid	8015NM Prep	
890-1122-13	AH-9 1-1.5	Total/NA	Solid	8015NM Prep	
890-1122-14	AH-9 2-2.5	Total/NA	Solid	8015NM Prep	
890-1122-15	AH-9 3-3.5	Total/NA	Solid	8015NM Prep	
890-1122-16	AH-10 0-1	Total/NA	Solid	8015NM Prep	
890-1122-17	AH-10 1-1.5	Total/NA	Solid	8015NM Prep	
890-1122-18	AH-10 2-2.5	Total/NA	Solid	8015NM Prep	
890-1122-19	AH-10 3-3.5	Total/NA	Solid	8015NM Prep	
890-1122-20	H-10	Total/NA	Solid	8015NM Prep	
MB 880-6791/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-6791/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-6791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1122-1 MS	H-9	Total/NA	Solid	8015NM Prep	
890-1122-1 MSD	H-9	Total/NA	Solid	8015NM Prep	

Analysis Batch: 6802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-21	H-11	Total/NA	Solid	8015B NM	6751
MB 880-6751/1-A	Method Blank	Total/NA	Solid	8015B NM	6751
LCS 880-6751/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6751
LCSD 880-6751/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6751
880-5232-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	6751
880-5232-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	6751

Analysis Batch: 6806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Total/NA	Solid	8015B NM	6791
890-1122-2	H-13	Total/NA	Solid	8015B NM	6791
890-1122-3	H-14	Total/NA	Solid	8015B NM	6791
890-1122-4	AH-7 0-1	Total/NA	Solid	8015B NM	6791
890-1122-5	AH-7 1-1.5	Total/NA	Solid	8015B NM	6791
890-1122-6	AH-7 2-2.5	Total/NA	Solid	8015B NM	6791
890-1122-7	AH-7 3-3.5	Total/NA	Solid	8015B NM	6791
890-1122-8	AH-8 0-1	Total/NA	Solid	8015B NM	6791
890-1122-9	AH-8 1-1.5	Total/NA	Solid	8015B NM	6791
890-1122-10	AH-8 2-2.5	Total/NA	Solid	8015B NM	6791
890-1122-11	AH-8 3-3.5	Total/NA	Solid	8015B NM	6791
890-1122-12	AH-9 0-1	Total/NA	Solid	8015B NM	6791
890-1122-13	AH-9 1-1.5	Total/NA	Solid	8015B NM	6791
890-1122-14	AH-9 2-2.5	Total/NA	Solid	8015B NM	6791
890-1122-15	AH-9 3-3.5	Total/NA	Solid	8015B NM	6791
890-1122-16	AH-10 0-1	Total/NA	Solid	8015B NM	6791
890-1122-17	AH-10 1-1.5	Total/NA	Solid	8015B NM	6791
890-1122-18	AH-10 2-2.5	Total/NA	Solid	8015B NM	6791
890-1122-19	AH-10 3-3.5	Total/NA	Solid	8015B NM	6791
890-1122-20	H-10	Total/NA	Solid	8015B NM	6791

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 6806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-6791/1-A	Method Blank	Total/NA	Solid	8015B NM	6791
LCS 880-6791/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	6791
LCSD 880-6791/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	6791
890-1122-1 MS	H-9	Total/NA	Solid	8015B NM	6791
890-1122-1 MSD	H-9	Total/NA	Solid	8015B NM	6791

Analysis Batch: 7247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-22	H-12	Total/NA	Solid	8015B NM	7251
MB 880-7251/1-A	Method Blank	Total/NA	Solid	8015B NM	7251
LCS 880-7251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7251
LCSD 880-7251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7251
890-1183-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	7251
890-1183-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7251

Prep Batch: 7251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-22	H-12	Total/NA	Solid	8015NM Prep	
MB 880-7251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1183-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1183-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 6747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Soluble	Solid	DI Leach	
890-1122-2	H-13	Soluble	Solid	DI Leach	
890-1122-3	H-14	Soluble	Solid	DI Leach	
890-1122-4	AH-7 0-1	Soluble	Solid	DI Leach	
890-1122-5	AH-7 1-1.5	Soluble	Solid	DI Leach	
890-1122-6	AH-7 2-2.5	Soluble	Solid	DI Leach	
890-1122-7	AH-7 3-3.5	Soluble	Solid	DI Leach	
890-1122-8	AH-8 0-1	Soluble	Solid	DI Leach	
890-1122-9	AH-8 1-1.5	Soluble	Solid	DI Leach	
890-1122-10	AH-8 2-2.5	Soluble	Solid	DI Leach	
890-1122-11	AH-8 3-3.5	Soluble	Solid	DI Leach	
890-1122-12	AH-9 0-1	Soluble	Solid	DI Leach	
890-1122-13	AH-9 1-1.5	Soluble	Solid	DI Leach	
890-1122-14	AH-9 2-2.5	Soluble	Solid	DI Leach	
890-1122-15	AH-9 3-3.5	Soluble	Solid	DI Leach	
890-1122-16	AH-10 0-1	Soluble	Solid	DI Leach	
890-1122-17	AH-10 1-1.5	Soluble	Solid	DI Leach	
890-1122-18	AH-10 2-2.5	Soluble	Solid	DI Leach	
890-1122-19	AH-10 3-3.5	Soluble	Solid	DI Leach	
890-1122-20	H-10	Soluble	Solid	DI Leach	
MB 880-6747/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6747/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6747/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 6747 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1 MS	H-9	Soluble	Solid	DI Leach	
890-1122-1 MSD	H-9	Soluble	Solid	DI Leach	
890-1122-11 MS	AH-8 3-3.5	Soluble	Solid	DI Leach	
890-1122-11 MSD	AH-8 3-3.5	Soluble	Solid	DI Leach	

Analysis Batch: 6812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-1	H-9	Soluble	Solid	300.0	6747
890-1122-2	H-13	Soluble	Solid	300.0	6747
890-1122-3	H-14	Soluble	Solid	300.0	6747
890-1122-4	AH-7 0-1	Soluble	Solid	300.0	6747
890-1122-5	AH-7 1-1.5	Soluble	Solid	300.0	6747
890-1122-6	AH-7 2-2.5	Soluble	Solid	300.0	6747
890-1122-7	AH-7 3-3.5	Soluble	Solid	300.0	6747
890-1122-8	AH-8 0-1	Soluble	Solid	300.0	6747
890-1122-9	AH-8 1-1.5	Soluble	Solid	300.0	6747
890-1122-10	AH-8 2-2.5	Soluble	Solid	300.0	6747
890-1122-11	AH-8 3-3.5	Soluble	Solid	300.0	6747
890-1122-12	AH-9 0-1	Soluble	Solid	300.0	6747
890-1122-13	AH-9 1-1.5	Soluble	Solid	300.0	6747
890-1122-14	AH-9 2-2.5	Soluble	Solid	300.0	6747
890-1122-15	AH-9 3-3.5	Soluble	Solid	300.0	6747
890-1122-16	AH-10 0-1	Soluble	Solid	300.0	6747
890-1122-17	AH-10 1-1.5	Soluble	Solid	300.0	6747
890-1122-18	AH-10 2-2.5	Soluble	Solid	300.0	6747
890-1122-19	AH-10 3-3.5	Soluble	Solid	300.0	6747
890-1122-20	H-10	Soluble	Solid	300.0	6747
MB 880-6747/1-A	Method Blank	Soluble	Solid	300.0	6747
LCS 880-6747/2-A	Lab Control Sample	Soluble	Solid	300.0	6747
LCSD 880-6747/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6747
890-1122-1 MS	H-9	Soluble	Solid	300.0	6747
890-1122-1 MSD	H-9	Soluble	Solid	300.0	6747
890-1122-11 MS	AH-8 3-3.5	Soluble	Solid	300.0	6747
890-1122-11 MSD	AH-8 3-3.5	Soluble	Solid	300.0	6747

Leach Batch: 6817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-21	H-11	Soluble	Solid	DI Leach	
890-1122-22	H-12	Soluble	Solid	DI Leach	
MB 880-6817/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-6817/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-6817/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-5271-A-3-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-5271-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 6822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1122-21	H-11	Soluble	Solid	300.0	6817
890-1122-22	H-12	Soluble	Solid	300.0	6817
MB 880-6817/1-A	Method Blank	Soluble	Solid	300.0	6817
LCS 880-6817/2-A	Lab Control Sample	Soluble	Solid	300.0	6817

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 6822 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-6817/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	6817
880-5271-A-3-C MS	Matrix Spike	Soluble	Solid	300.0	6817
880-5271-A-3-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	6817

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-9

Lab Sample ID: 890-1122-1

Date Collected: 08/17/21 11:30

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 17:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 16:04	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 14:40	CH	XEN MID

Client Sample ID: H-13

Lab Sample ID: 890-1122-2

Date Collected: 08/17/21 13:06

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6818	08/20/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6776	08/20/21 11:27	MR	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 17:07	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 14:57	CH	XEN MID

Client Sample ID: H-14

Lab Sample ID: 890-1122-3

Date Collected: 08/17/21 11:50

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 22:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:03	CH	XEN MID

Client Sample ID: AH-7 0-1

Lab Sample ID: 890-1122-4

Date Collected: 08/17/21 12:07

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 22:45	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:08	CH	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-7 1-1.5

Lab Sample ID: 890-1122-5

Date Collected: 08/17/21 12:18

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 23:05	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:14	CH	XEN MID

Client Sample ID: AH-7 2-2.5

Lab Sample ID: 890-1122-6

Date Collected: 08/17/21 12:26

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 23:26	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:31	CH	XEN MID

Client Sample ID: AH-7 3-3.5

Lab Sample ID: 890-1122-7

Date Collected: 08/17/21 12:34

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/19/21 23:46	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 18:49	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:36	CH	XEN MID

Client Sample ID: AH-8 0-1

Lab Sample ID: 890-1122-8

Date Collected: 08/17/21 10:16

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 00:06	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 19:10	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:42	CH	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-8 1-1.5

Lab Sample ID: 890-1122-9

Date Collected: 08/17/21 10:20

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 00:27	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 19:30	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:48	CH	XEN MID

Client Sample ID: AH-8 2-2.5

Lab Sample ID: 890-1122-10

Date Collected: 08/17/21 10:25

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6736	08/19/21 09:45	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 00:47	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 19:50	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:53	CH	XEN MID

Client Sample ID: AH-8 3-3.5

Lab Sample ID: 890-1122-11

Date Collected: 08/17/21 10:30

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 04:08	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 20:29	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 15:59	CH	XEN MID

Client Sample ID: AH-9 0-1

Lab Sample ID: 890-1122-12

Date Collected: 08/17/21 10:49

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 04:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 20:49	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:16	CH	XEN MID

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-9 1-1.5

Lab Sample ID: 890-1122-13

Date Collected: 08/17/21 10:52

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 04:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 21:09	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:21	CH	XEN MID

Client Sample ID: AH-9 2-2.5

Lab Sample ID: 890-1122-14

Date Collected: 08/17/21 10:56

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 05:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 21:29	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:38	CH	XEN MID

Client Sample ID: AH-9 3-3.5

Lab Sample ID: 890-1122-15

Date Collected: 08/17/21 11:07

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 05:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 21:48	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:44	CH	XEN MID

Client Sample ID: AH-10 0-1

Lab Sample ID: 890-1122-16

Date Collected: 08/17/21 12:29

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 05:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 22:08	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:49	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: AH-10 1-1.5

Lab Sample ID: 890-1122-17

Date Collected: 08/17/21 12:35

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 06:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 22:28	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 16:55	CH	XEN MID

Client Sample ID: AH-10 2-2.5

Lab Sample ID: 890-1122-18

Date Collected: 08/17/21 12:38

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 06:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 22:48	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 17:01	CH	XEN MID

Client Sample ID: AH-10 3-3.5

Lab Sample ID: 890-1122-19

Date Collected: 08/17/21 12:46

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 06:52	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 23:08	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 17:06	CH	XEN MID

Client Sample ID: H-10

Lab Sample ID: 890-1122-20

Date Collected: 08/17/21 13:41

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 07:12	KL	XEN MID
Total/NA	Prep	8015NM Prep			6791	08/19/21 11:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6806	08/19/21 23:27	AJ	XEN MID
Soluble	Leach	DI Leach			6747	08/18/21 14:27	SC	XEN MID
Soluble	Analysis	300.0		1	6812	08/19/21 17:12	CH	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

Client Sample ID: H-11

Lab Sample ID: 890-1122-21

Date Collected: 08/17/21 12:53

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 08:35	KL	XEN MID
Total/NA	Prep	8015NM Prep			6751	08/19/21 16:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1	6802	08/19/21 18:51	AJ	XEN MID
Soluble	Leach	DI Leach			6817	08/19/21 15:09	SC	XEN MID
Soluble	Analysis	300.0		1	6822	08/20/21 11:09	CH	XEN MID

Client Sample ID: H-12

Lab Sample ID: 890-1122-22

Date Collected: 08/17/21 10:44

Matrix: Solid

Date Received: 08/17/21 16:34

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6773	08/19/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	6771	08/20/21 08:55	KL	XEN MID
Total/NA	Prep	8015NM Prep			7251	08/30/21 09:17	DM	XEN MID
Total/NA	Analysis	8015B NM		1	7247	08/30/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			6817	08/19/21 15:09	SC	XEN MID
Soluble	Analysis	300.0		1	6822	08/20/21 11:14	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
SDG: Lea County NM

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

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Method Summary

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

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



Sample Summary

Client: Tetra Tech, Inc.
 Project/Site: HeartThrob Riser Spill

Job ID: 890-1122-1
 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1122-1	H-9	Solid	08/17/21 11:30	08/17/21 16:34	
890-1122-2	H-13	Solid	08/17/21 13:06	08/17/21 16:34	
890-1122-3	H-14	Solid	08/17/21 11:50	08/17/21 16:34	
890-1122-4	AH-7 0-1	Solid	08/17/21 12:07	08/17/21 16:34	0 - 1
890-1122-5	AH-7 1-1.5	Solid	08/17/21 12:18	08/17/21 16:34	1 - 1.5
890-1122-6	AH-7 2-2.5	Solid	08/17/21 12:26	08/17/21 16:34	2 - 2.5
890-1122-7	AH-7 3-3.5	Solid	08/17/21 12:34	08/17/21 16:34	3 - 3.5
890-1122-8	AH-8 0-1	Solid	08/17/21 10:16	08/17/21 16:34	0 - 1
890-1122-9	AH-8 1-1.5	Solid	08/17/21 10:20	08/17/21 16:34	1 - 1.5
890-1122-10	AH-8 2-2.5	Solid	08/17/21 10:25	08/17/21 16:34	2 - 2.5
890-1122-11	AH-8 3-3.5	Solid	08/17/21 10:30	08/17/21 16:34	3 - 3.5
890-1122-12	AH-9 0-1	Solid	08/17/21 10:49	08/17/21 16:34	0 - 1
890-1122-13	AH-9 1-1.5	Solid	08/17/21 10:52	08/17/21 16:34	1 - 1.5
890-1122-14	AH-9 2-2.5	Solid	08/17/21 10:56	08/17/21 16:34	2 - 2.5
890-1122-15	AH-9 3-3.5	Solid	08/17/21 11:07	08/17/21 16:34	3 - 3.5
890-1122-16	AH-10 0-1	Solid	08/17/21 12:29	08/17/21 16:34	0 - 1
890-1122-17	AH-10 1-1.5	Solid	08/17/21 12:35	08/17/21 16:34	1 - 1.5
890-1122-18	AH-10 2-2.5	Solid	08/17/21 12:38	08/17/21 16:34	2 - 2.5
890-1122-19	AH-10 3-3.5	Solid	08/17/21 12:46	08/17/21 16:34	3 - 3.5
890-1122-20	H-10	Solid	08/17/21 13:41	08/17/21 16:34	
890-1122-21	H-11	Solid	08/17/21 12:53	08/17/21 16:34	
890-1122-22	H-12	Solid	08/17/21 10:44	08/17/21 16:34	

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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



890-1122 Chain of Custody

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

Project Name: **Heart Throb Riser Spill**

Project Location: **Lea County, New Mexico** Project #: **212C-MD-02559**

Invoice to: **EOG Resources/Ginny Powers**

Receiving Laboratory: **Eurofins** Sampler Signature: **Heidi Landis**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
	YEAR	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			
H-9		8/16/2021	11:30	X						1 N	
H-13		8/16/2021	11:36	X						1 N	
H-14		8/16/2021	11:50	X						1 N	
AH-7 0-1'		8/16/2021	12:07	X						1 N	
AH-7 1-1.5'		8/16/2021	12:18	X						1 N	
AH-7 2-2.5'		8/16/2021	12:26	X						1 N	
AH-7 3-3.5'		8/16/2021	12:34	X						1 N	
AH-8 0-1'		8/17/2021	10:16	X						1 N	
AH-8 1-1.5'		8/17/2021	10:20	X						1 N	
AH-8 2-2.5'		8/17/2021	10:25	X						1 N	

Relinquished by: **Heidi Landis** Date: **8/17/21** Time: **10:33**

Relinquished by: **N. Davis** Date: **8/17/21** Time: **4:34**

Relinquished by: _____ Date: _____ Time: _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

BTEX 8021B
 TPH TX1005 (Ext to C35)
 TPH 8015M (GRO - DRO - ORO)
 PAH 8270C
 Total Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Metals Ag As Ba Cd Cr Pb Se Hg
 TCLP Volatiles
 TCLP Semi Volatiles
 RCI
 GC/MS Vol. 8260B / 624
 GC/MS Semi. Vol. 8270C/625
 PCB's 8082 / 608
 NORM
 PLM (Asbestos)
 Chloride 300.072 hr. TAT
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance

LAB USE ONLY

REMARKS:

RUSH: Same Day 24 hr. 48 hr. 72 hr.

Rush Charges Authorized
 Special Report Limits or TRRP Report

Sample Temperature: **1.8/1.6**

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

ORIGINAL COPY

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
223216

Custody Seal 8/17/21
DATE *Heidi Fandi*
SIGNATURE

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
223216

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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

Client Name: EOG Resources Site Manager: Brittany Long

Project Name: Heart Throb Riser Spill

Project Location: Lea County, New Mexico Project #: 212C-MD-02559

Invoice to: EOG Resources/Ginny Powers

Receiving Laboratory: Eurofins Sampler Signature: Heidi Landis

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		DATE	TIME	MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
	YEAR	DATE						
AH-8-3-3.5'			8/17/2021	10:30	X		1	N
AH-9-0-1'			8/17/2021	10:49	X		1	N
AH-9-1-1.5'			8/17/2021	10:52	X		1	N
AH-9-2-2.5'			8/17/2021	10:56	X		1	N
AH-9-3-3.5'			8/17/2021	11:07	X		1	N
AH-10-0-1'			8/17/2021	12:29	X		1	N
AH-10-1-1.5'			8/17/2021	12:35	X		1	N
AH-10-2-2.5'			8/17/2021	12:38	X		1	N
AH-10-3-3.5'			8/17/2021	12:46	X		1	N
H-10			8/17/2021	13:41	X		1	N

Relinquished by: *Heidi Landis* Date: 8/17/21 Time: 16:38

Received by: *N. Ode* Date: 8/17/21 Time: 4:34

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

LAB USE ONLY

REMARKS:

RUSH Same Day 24 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: *18.6*

ORIGINAL COPY

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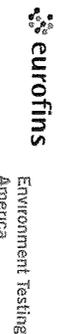
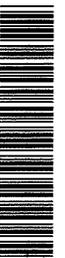
Handwritten text, possibly a signature or date, oriented vertically in the center of the page.

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Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

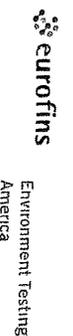


Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Eurofins Xenco		Phone	Kramer, Jessica		890-358 1
Shipping/Receiving		E-Mail: jessica.kramer@eurofins.com	State of Origin	New Mexico	Page 1 of 3
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas			
Address: 1211 W. Florida Ave.		Due Date Requested: 8/20/2021			
City: Midland		TAT Requested (days):			
State Zip: TX, 79701		PO #			
Phone: 432-704-5440(Tel)		WO #			
Email		Project #: 88000013			
Project Name: HeartThrob Riser Spill		SSOW#:			
Site					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	MATRIX (W=water, S=solid, O=water/Oil, B=Tri-Tissue, A=Air)
H-9 (890-1122-1)	8/17/21	11 30	Mountain	Solid	
H-13 (890-1122-2)	8/17/21	13 06	Mountain	Solid	
H-14 (890-1122-3)	8/17/21	11 50	Mountain	Solid	
AH-7 0-1 (890-1122-4)	8/17/21	12 07	Mountain	Solid	
AH-7 1-1 5 (890-1122-5)	8/17/21	12 18	Mountain	Solid	
AH-7 2-2 5 (890-1122-6)	8/17/21	12 26	Mountain	Solid	
AH-7 3-3 5 (890-1122-7)	8/17/21	12 34	Mountain	Solid	
AH-8 0-1 (890-1122-8)	8/17/21	10 16	Mountain	Solid	
AH-8 1-1 5 (890-1122-9)	8/17/21	10 20	Mountain	Solid	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/method being analyzed, the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>					
Possible Hazard Identification					
<p>Unconfirmed Deliverable Requested I II III, IV, Other (Specify) Primary Deliverable Rank 2</p>					
<p>Empty Kit Relinquished by _____ Date _____ Time _____ Date _____ Method of Shipment _____</p>					
<p>Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____</p>					
<p>Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____</p>					
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____</p>					
<p>Special Instructions/OC Requirements: _____</p>					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>					
<p>Analysis Requested</p> <p>Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/></p> <p>Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/></p> <p>300_ORGFMM_28D/DI_LEACH Chloride</p> <p>8015MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO</p> <p>8021B/5035FP_Calc BTEX</p> <p>Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amehlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA M Hexane N None O AshNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (Specify) _____</p>					
<p>Total Number of containers _____</p> <p>Special Instructions/Note: _____</p>					



1089 N Canal St
 Carlisbad, NM 88220
 Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No					
Client Contact:	Phone	Kramer Jessica	State of Origin	890-358 2	890-358 2					
Shipping/Receiving	E-Mail	Jessica.Kramer@eurofinsnet.com	New Mexico	Page 2 of 3						
Company:	Address	Accreditations Required (See note)	NELAP - Louisiana NELAP - Texas	Job #:	890-1122-1					
Eurofins Xenco	1211 W Florida Ave									
City	Due Date Requested									
Midland	8/20/2021									
State Zip	TAT Requested (days)									
TX 79701										
Phone:	PO #									
432-704-5440(Tel)	W/O #									
Email	Project #									
	88000013									
Project Name	SSOW#									
Heart Throb Riser Spill										
Site:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
AH-8-2-2-5 (890-1122-10)	8/17/21	10 25	Mountain	Solid		X	X			
AH-8-3-3-5 (890-1122-11)	8/17/21	10 30	Mountain	Solid		X	X			
AH-9-0-1 (890-1122-12)	8/17/21	10 49	Mountain	Solid		X	X			
AH-9-1-1-5 (890-1122-13)	8/17/21	10 52	Mountain	Solid		X	X			
AH-9-2-2-5 (890-1122-14)	8/17/21	10 56	Mountain	Solid		X	X			
AH-9-3-3-5 (890-1122-15)	8/17/21	11 07	Mountain	Solid		X	X			
AH-10-0-1 (890-1122-16)	8/17/21	12 29	Mountain	Solid		X	X			
AH-10-1-1-5 (890-1122-17)	8/17/21	12 35	Mountain	Solid		X	X			
AH-10-2-2-5 (890-1122-18)	8/17/21	12 38	Mountain	Solid		X	X			
<p>Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State or Origin listed above for analysis/test/method being analyzed, the samples must be shipped back to the Eurofins Xenco LLC Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.</p>										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify)										
Primary Deliverable Rank 2										
Empty Kit Relinquished by:										
Date										
Time										
Method of Shipment:										
Received by:										
Date/Time										
Company										
Received by:										
Date/Time										
Company										
Relinquished by:										
Date/Time										
Company										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Custody Seal No										
Cooler Temperature(s) °C and Other Remarks										

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1122-1
SDG Number: Lea County NM

Login Number: 1122
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	

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Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-1122-1
SDG Number: Lea County NM

Login Number: 1122
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 08/19/21 10:48 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.0/1.5
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.	True	
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	

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

September 09, 2021

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HEART THROB RISER SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/08/21 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 1 (H212478-01)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	09/09/2021	ND	400	100	400	7.69		

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	09/08/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND						

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 2 (H212478-02)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.8 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 3 (H212478-03)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	176	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 4 (H212478-04)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.0 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 5 (H212478-05)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	192	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 6 (H212478-06)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	144	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.8 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 7 (H212478-07)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	48.0	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 8 (H212478-08)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	128	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 9 (H212478-09)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	7.69	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.5 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 10 (H212478-10)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	80.0	16.0	09/09/2021	ND	400	100	400	7.69		

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	09/08/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND						

Surrogate: 1-Chlorooctane 72.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 11 (H212478-11)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	80.0	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 12 (H212478-12)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	144	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 13 (H212478-13)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/08/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND						

Surrogate: 1-Chlorooctane 78.2 % 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 14 (H212478-14)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	112	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/08/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND						

Surrogate: 1-Chlorooctane 95.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 15 (H212478-15)

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	09/08/2021	ND	1.83	91.5	2.00	1.23	
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196	
Total BTEX	<0.300	0.300	09/08/2021	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	16.0	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/08/2021	ND	199	99.3	200	9.59	
DRO >C10-C28*	<10.0	10.0	09/08/2021	ND	203	102	200	5.69	
EXT DRO >C28-C36	<10.0	10.0	09/08/2021	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.3 % 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 16 (H212478-16)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 89.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 17 (H212478-17)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	<16.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 78.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 18 (H212478-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	16.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 91.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 19 (H212478-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.4 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 20 (H212478-20)

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	09/08/2021	ND	1.83	91.5	2.00	1.23		
Toluene*	<0.050	0.050	09/08/2021	ND	2.01	100	2.00	0.367		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.98	99.1	2.00	0.793		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	0.196		
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	199	99.3	200	9.59		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	203	102	200	5.69		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 21 (H212478-21)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/08/2021	ND	1.93	96.6	2.00	8.54		
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31		
Total BTEX	<0.300	0.300	09/08/2021	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	16.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	212	106	200	0.705		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.8 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 22 (H212478-22)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 24 (H212478-23)

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	09/08/2021	ND	1.93	96.6	2.00	8.54		
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31		
Total BTEX	<0.300	0.300	09/08/2021	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	<16.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	212	106	200	0.705		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 95.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.0 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 26 (H212478-24)

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	09/08/2021	ND	1.93	96.6	2.00	8.54		
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31		
Total BTEX	<0.300	0.300	09/08/2021	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	48.0	16.0	09/09/2021	ND	400	100	400	3.92		

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	09/09/2021	ND	212	106	200	0.705		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 91.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 28 (H212478-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	32.0	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 33 (H212478-26)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	176	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 70.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 34 (H212478-27)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	304	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.5 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 35 (H212478-28)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	368	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 36 (H212478-29)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	368	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.5 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 37 (H212478-30)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	336	16.0	09/09/2021	ND	400	100	400	3.92	

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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.9 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 38 (H212478-31)

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	09/08/2021	ND	1.93	96.6	2.00	8.54		
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62		
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26		
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31		
Total BTEX	<0.300	0.300	09/08/2021	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	272	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.3 % 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 39 (H212478-32)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	192	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.5 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 40 (H212478-33)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	304	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 41 (H212478-34)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	432	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 61.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 56.0 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 42 (H212478-35)

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	09/08/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/08/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/08/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/08/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/08/2021	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	96.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.4 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 43 (H212478-36)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/09/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/09/2021	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	96.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 44 (H212478-37)

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	09/09/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/09/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/09/2021	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	96.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 45 (H212478-38)

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	09/09/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/09/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/09/2021	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	48.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 46 (H212478-39)

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	09/09/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/09/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/09/2021	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	96.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.4 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 47 (H212478-40)

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	09/09/2021	ND	1.93	96.6	2.00	8.54	
Toluene*	<0.050	0.050	09/09/2021	ND	1.94	96.9	2.00	6.62	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.94	97.1	2.00	6.26	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	6.01	100	6.00	6.31	
Total BTEX	<0.300	0.300	09/09/2021	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	96.0	16.0	09/09/2021	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	09/09/2021	ND	212	106	200	0.705	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	227	113	200	4.41	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.8 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 48 (H212478-41)

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	09/09/2021	ND	1.78	88.8	2.00	7.82		
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76		
Total BTEX	<0.300	0.300	09/09/2021	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	112	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 74.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.3 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 49 (H212478-42)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	80.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	13.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 50 (H212478-43)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	320	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 73.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.4 % 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 51 (H212478-44)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	32.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.0 % 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 52 (H212478-45)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	128	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 53 (H212478-46)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	80.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 75.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 54 (H212478-47)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	16.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 68.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 55 (H212478-48)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.8 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 56 (H212478-49)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	64.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 57 (H212478-50)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	64.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.1 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 58 (H212478-51)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	320	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 69.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/08/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 59 (H212478-52)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	176	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.6 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 60 (H212478-53)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	32.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 61 (H212478-54)

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	09/09/2021	ND	1.78	88.8	2.00	7.82		
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76		
Total BTEX	<0.300	0.300	09/09/2021	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	112	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 76.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.0 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 62 (H212478-55)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	80.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 63 (H212478-56)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	32.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.3 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 64 (H212478-57)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	16.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.9 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 65 (H212478-58)

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	09/09/2021	ND	1.78	88.8	2.00	7.82		
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76		
Total BTEX	<0.300	0.300	09/09/2021	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	16.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 66 (H212478-59)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	64.0	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.2 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/07/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 67 (H212478-60)

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	09/09/2021	ND	1.78	88.8	2.00	7.82	
Toluene*	<0.050	0.050	09/09/2021	ND	1.93	96.6	2.00	8.52	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.3	2.00	8.49	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.76	95.9	6.00	7.76	
Total BTEX	<0.300	0.300	09/09/2021	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	128	16.0	09/09/2021	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	09/09/2021	ND	216	108	200	1.21	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	188	94.0	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 68 (H212478-61)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	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	16.0	16.0	09/09/2021	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	09/09/2021	ND	202	101	200	3.93		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 69 (H212478-62)

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	09/09/2021	ND	1.91	95.6	2.00	9.51	
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73	
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51	
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06	
Total BTEX	<0.300	0.300	09/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	432	16.0	09/09/2021	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	09/09/2021	ND	202	101	200	3.93	
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44	
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 70 (H212478-63)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	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	32.0	16.0	09/09/2021	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	09/09/2021	ND	202	101	200	3.93		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 38.9-142

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Mike Snyder For 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:	09/08/2021	Sampling Date:	09/02/2021
Reported:	09/09/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02363	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 71 (H212478-64)

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	09/09/2021	ND	1.91	95.6	2.00	9.51		
Toluene*	<0.050	0.050	09/09/2021	ND	1.90	95.2	2.00	7.73		
Ethylbenzene*	<0.050	0.050	09/09/2021	ND	1.91	95.6	2.00	6.51		
Total Xylenes*	<0.150	0.150	09/09/2021	ND	5.92	98.6	6.00	6.06		
Total BTEX	<0.300	0.300	09/09/2021	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	32.0	16.0	09/09/2021	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	09/09/2021	ND	202	101	200	3.93		
DRO >C10-C28*	<10.0	10.0	09/09/2021	ND	210	105	200	1.44		
EXT DRO >C28-C36	<10.0	10.0	09/09/2021	ND						

Surrogate: 1-Chlorooctane 78.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.4 % 38.9-142

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

- 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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.



907W Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559 Fax
(432) 682-3948

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

Project Name: **Heart Throb Riser**
Project #: **212C-MD-02363**

Project Location: **Lea County, New Mexico**

Invoice to: **EOG Resources, Kevin Black**

Receiving Laboratory: **Cardinal Laboratory**
Sampler Signature: **Myka Taylor**

Comments:

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		YEAR: 2020				WATER	SOIL	HCL	HNO ₃	ICE	None		
1	SM-1			9/7/21			X		X	X	X		
2	SM-2			9/7/21			X		X	X	X		
3	SM-3			9/7/21			X		X	X	X		
4	SM-4			9/7/21			X		X	X	X		
5	SM-5			9/7/21			X		X	X	X		
6	SM-6			9/7/21			X		X	X	X		
7	SM-7			9/7/21			X		X	X	X		
8	SM-8			9/7/21			X		X	X	X		
9	SM-9			9/7/21			X		X	X	X		
10	SM-10			9/7/21			X		X	X	X		

Relinquished by: **Myka Taylor** Date: **9-8-21** Time: **1515**
Received by: **Jessica White** Date: **9-8-21** Time: **1515**

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

LAB USE ONLY
REMARKS:
 STANDARD
 RUSH: Same Day 24 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

31111 West Street, Ste 100
Midland, Texas 79705
Tel (432) 692-4559
Fax (432) 692-3046

Client Name: **EOG Resources**

Site Manager: **Brittany Long**

Project Name: **Heart Arab Riser**

Project #: **212C-MD-02363**

Project Location: **Lea County, New Mexico**

Invoice to: **EOG Resources, Kevin Black**

Receiving Laboratory: **Cardinal Laboratory**

Comments: **Myles Taylor**

LAB # **4212478**

(LAB USE ONLY)

SAMPLE IDENTIFICATION

LAB #	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		YEAR	2020			WATER	SOIL	HCL	HNO ₃	ICE		
11	SW-11			9/7/21			X					
12	SW-12			9/8/21			X					
13	SW-13			9/8/21			X					
14	SW-14			9/8/21			X					
15	SW-15			9/8/21			X					
16	SW-16			9/8/21			X					
17	SW-17			9/8/21			X					
18	SW-18			9/8/21			X					
19	SW-19			9/8/21			X					
20	SW-20			9/8/21			X					

Relinquished by: **Myles Taylor**

Date: **9-8-21** Time: **1515**

Received by: **Brittany Long**

Date: **9-8-21** Time: **1515**

Relinquished by:

Date: Time:

Received by:

Date: Time:

ORIGINAL COPY

ANALYSIS REQUEST (Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **8.4°C**

#113

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

9011W VIEB STREET, SUITE 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3846

Client Name: **EDG Resources**

Site Manager: **Brittany Long**

Project Name: **Heart Throb River**

Project #: **212C-MD-02363**

Project Location: **Lea County, New Mexico**

Invoice to: **EDG Resources, Rent in Black**

Receiving Laboratory: **Cardinal Laboratory**

Sampler Signature: **Mike Taylor**

Comments:

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX				PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
21	SW-21	9/8/21		X				X			1	
22	SW-22	9/8/21		X				X			1	
23	SW-24	9/8/21		X				X			1	
24	SW-26	9/8/21		X				X			1	
25	SW-28	9/8/21		X				X			1	
26	BH-33	9/8/21		X				X			1	
27	BH-34	9/8/21		X				X			1	
28	BH-35	9/8/21		X				X			1	
29	BH-36	9/8/21		X				X			1	
30	BH-37	9/8/21		X				X			1	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Mike Taylor	9-8-21	1515	Brittany Long	9-8-21	1515
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

LAB USE ONLY

Sample Temperature: **3.4°C**

#113

REMARKS:

STANDARD

RUSH: Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



101 East Marland, Hobbs, NM 88240
 RT 949M (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: ~~EDGE Resources~~ Terra Tech
 Project Manager: ~~Brittany Long~~
 Address: 901 W. Wall Street Ste 100
 City: Midland TX Zip: 79705
 Phone #: (432) 682-4559 Fax #: 432-682-3946
 Project #: 212C-MD-02363 Project Owner: ~~Kevin Black~~
 Project Name: Heart Throb Riser
 Project Location: Lea County, New Mexico

P.O. #:
 Company: ~~EDGE Resources~~
 Attn: Kevin Black
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

BILL TO

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE :				ICE / COOL
A212478	BH-38			X							9/8/21		X	BTEX 8021 B
	BH-39			X							9/8/21		X	BTEX 8266
	BH-40			X							9/8/21		X	TPH 8015 M
	BH-41			X							9/11/21		X	Chlorite
	BH-42			X							9/11/21			
	BH-43			X							9/11/21			
	BH-44			X							9/11/21			
	BH-45			X							9/11/21			
	BH-46			X							9/17/21			
	BH-467			X							9/17/21			

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Relinquished By: *Mike Taylor*
 Date: 9/8-21
 Time: 1515
 Received By: *Kevin Black*
 Date:
 Time:
 CHECKED BY: *VC*

REMARKS:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Turnaround Time: Standard Rush
 Thermometer ID #113
 Correction Factor None
 Bacteria (only)
 Cool Intact
 Yes No
 Sample Condition
 Observed Temp. °C
 Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C 8.4
 Corrected Temp. °C
 Sampler - UPS - Bus - Other:
 Sample Condition Yes No
 Cool Intact Yes No
 Checked BY: *VC*
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: ~~EC Resources~~ **TERA TECH**
 Project Manager: **Brittany Long**
 Address: **901 W. Wall Street Ste 100**
 City: **Midland** State: **TX** Zip: **79705**
 Phone #: **(432) 682 4559** Fax #: **432-682-3946**
 Project #: **212C-MD-02363** Project Owner: **Kevin Blodgett**
 Project Name: **Heart Throb Riser**
 Project Location: **Lea County, New Mexico**
 Sampler Name: _____
 FOR LAB USE ONLY

P.O. #: _____ Company: **EDG Resources**
 Attn: **Kevin Black**
 Address: _____
 State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER			
H012478	BH-58			X	X	X	X	X	X	9/11/21		X BTEX 8021 B BTEX 8260
52	BH-59			X	X	X	X	X	X	9/11/21		X TPH 8015 M
53	BH-60			X	X	X	X	X	X	9/12/21		X Chloride
54	BH-61			X	X	X	X	X	X	9/12/21		
55	BH-62			X	X	X	X	X	X	9/12/21		
56	BH-63			X	X	X	X	X	X	9/12/21		
57	BH-64			X	X	X	X	X	X	9/12/21		
58	BH-65			X	X	X	X	X	X	9/12/21		
59	BH-66			X	X	X	X	X	X	9/12/21		
60	BH-67			X	X	X	X	X	X	9/12/21		

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Relinquished By: **Mark Taylor** Date: **9-8-21** Time: **1515**
 Received By: **Juanita Chavez** Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C: **2.4** Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: _____

Sampler - UPS - Bus - Other: _____

Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Correction Factor None

Bacteria (only) Sample Condition: Yes No Observed Temp. °C: _____ Corrected Temp. °C: _____

REMARKS: _____

Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

FORWARD TO: 31090720

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



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

September 14, 2021

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HEART THROB RISER SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/13/21 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 22 (H212528-01)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/14/2021	ND	448	112	400	3.64	QR-03	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 23 (10') (H212528-02)

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	09/13/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 24 (16') (H212528-03)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 25 (16') (H212528-04)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 26 (4') (H212528-05)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 98.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 27 (4') (H212528-06)

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	09/13/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 28 (4') (H212528-07)

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	09/13/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 29 (4') (H212528-08)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 30 (4') (H212528-09)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 31 (4') (H212528-10)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 19 (16') (H212528-11)

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	09/13/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 20 (16') (H212528-12)

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	09/13/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/13/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 21 (16') (H212528-13)

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	09/14/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/14/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/14/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/14/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 44 (H212528-14)

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	09/14/2021	ND	1.98	99.2	2.00	3.51		
Toluene*	<0.050	0.050	09/14/2021	ND	1.97	98.5	2.00	2.42		
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.98	98.8	2.00	3.47		
Total Xylenes*	<0.150	0.150	09/14/2021	ND	6.11	102	6.00	2.56		
Total BTEX	<0.300	0.300	09/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 45 (H212528-15)

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	09/14/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/14/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/14/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/14/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	215	108	200	3.30	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	218	109	200	2.74	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.7 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 46 (H212528-16)

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	09/14/2021	ND	1.98	99.2	2.00	3.51	
Toluene*	<0.050	0.050	09/14/2021	ND	1.97	98.5	2.00	2.42	
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.98	98.8	2.00	3.47	
Total Xylenes*	<0.150	0.150	09/14/2021	ND	6.11	102	6.00	2.56	
Total BTEX	<0.300	0.300	09/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 47 (H212528-17)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 48 (H212528-18)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 49 (H212528-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	09/14/2021	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 50 (H212528-20)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2021	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 51 (H212528-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.4 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 52 (H212528-22)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 53 (H212528-23)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.0 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 54 (H212528-24)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.7 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 55 (H212528-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	09/13/2021	Sampling Date:	09/13/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 23 (H212528-26)

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	09/13/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 16 (10') (H212528-27)

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	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 112 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 17 (10') (H212528-28)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 18 (16') (H212528-29)

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	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 32 (16') (H212528-30)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 25 (H212528-31)

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	09/13/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/13/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 27 (H212528-32)

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	09/14/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/14/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/14/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/14/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 29 (H212528-33)

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	09/14/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/14/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/14/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 30 (H212528-34)

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	09/14/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/14/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/14/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/14/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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:	09/13/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 31 (H212528-35)

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	09/14/2021	ND	1.85	92.6	2.00	3.00	
Toluene*	<0.050	0.050	09/14/2021	ND	1.96	98.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.97	98.6	2.00	3.14	
Total Xylenes*	<0.150	0.150	09/14/2021	ND	5.97	99.5	6.00	3.39	
Total BTEX	<0.300	0.300	09/14/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	194	97.1	200	3.33	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	217	109	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.2 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 32 (H212528-36)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/14/2021	ND	1.85	92.6	2.00	3.00		
Toluene*	<0.050	0.050	09/14/2021	ND	1.96	98.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/14/2021	ND	1.97	98.6	2.00	3.14		
Total Xylenes*	<0.150	0.150	09/14/2021	ND	5.97	99.5	6.00	3.39		
Total BTEX	<0.300	0.300	09/14/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	09/14/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.1 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 33 (H212528-37)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 34 (H212528-38)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 35 (H212528-39)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.9 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 36 (H212528-40)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/14/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.2 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 37 (H212528-41)

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	09/13/2021	ND	2.00	99.9	2.00	3.86		
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/14/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 38 (H212528-42)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/14/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.3 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 40 (H212528-43)

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	09/13/2021	ND	2.00	99.9	2.00	3.86		
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/14/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.8 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 41 (H212528-44)

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	09/13/2021	ND	2.00	99.9	2.00	3.86		
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/14/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/14/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/14/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/14/2021	ND						

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.3 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 42 (H212528-45)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/14/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/14/2021	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.1 % 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:	09/13/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD -	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 43 (H212528-46)

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	09/13/2021	ND	2.00	99.9	2.00	3.86	
Toluene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	5.25	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	2.11	105	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	6.33	106	6.00	4.13	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/14/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/14/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/14/2021	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.4 % 38.9-142

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

9017W VIEBIL STREET, S#8 100
Midland, Texas 79705
Tel (432) 882-4559
Fax (432) 882-3946

Client Name: **EDG Resources** Site Manager: **Brittany Long**

Project Name: **Heur Trob Riser** Project #: **212C-MD-02363** (UT 9/13/21)

Project Location: **Lea County, New Mexico**

Invoice to: **EDG Resources, Kevin Black**

Receiving Laboratory: **Cardinal Laboratory** Sampler Signature: **Myles Taylor**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2020											
1	BH-22			9/9/21			X						
2	BH-23 (10')			9/10/21			X						
3	BH-24 (16')			9/10/21			X						
4	BH-25 (16')			9/16/21			X						
5	BH-26 (4')			9/9/21			X						
6	BH-27 (4')			9/9/21			X						
7	BH-28 (4')			9/9/21			X						
8	BH-29 (4')			9/9/21			X						
9	BH-30 (4')			9/9/21			X						
10	BH-31 (4')			9/9/21			X						

Relinquished by: **Myles Taylor** Date: **9-13-21** Time: **1150**

Relinquished by: **Myles Taylor** Date: **9-13-21** Time: **1150**

Received by: **Brittany Long** Date: **9/13/21** Time: **1150**

Received by: **Brittany Long** Date: **9/13/21** Time: **1150**

ANALYSIS REQUEST
(Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **5.1°C**

#113

(Circle) HAND DELIVERED FEDEX UPS Tracking # _____

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Analysis Request of Custody Record



Tetra Tech, Inc.

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

Client Name: **EDG Resources**
 Project Name: **Heary-Trap Riser**
 Project Location: **Lea County, New Mexico**
 Invoice to: **EDG Resources Kevin Black**
 Receiving Laboratory: **Cardinal Laboratory**
 Comments:

Site Manager: **Brianny Long**
 Project #: **212C-MD-~~02363~~-02559**
 Sampler Signature: **Mylor-Tony**

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
11B	BA-19 (16')	9/10/21		X	X						
12B	BA-20 (16')	9/10/21		X	X						
13	BA-21 (16')	9/10/21		X	X						
14	SM-44	9/10/21		X	X						
15	SM-45	9/10/21		X	X						
16	SM-46	9/10/21		X	X						
17	SM-47	9/10/21		X	X						
18	SM-48	9/10/21		X	X						
19	SM-49	9/10/21		X	X						
20	SM-50	9/10/21		X	X						

Relinquished by: **Mylor Tony** Date: **9-13-21** Time: **1150**
 Received by: **Juanita White** Date: **9/13/21** Time: **1150**

ANALYSIS REQUEST (Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS: STANDARD RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized Special Report Limits or TRRP Report

#113

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

301 W. WEBB STREET, SUITE 100
MIDLAND, TEXAS 79705
Tel (432) 682-4559
Fax (432) 682-3946

Client Name:

EDS Resources

Site Manager:

Brittany Long

(MT 9/13/21)

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

Project Name:

Heart Throb Riser

Project #:

212C-MN-02353

Project Location:

Lea County, Allen, Mexico

Invoice to:

EDS Resources, Kevin Black

Receiving Laboratory:

Cardinal Laboratory

Sampler Signature:

Myka Taylor

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
H218528												
21	SW-51		9/10/21		X			X				X
22	SW-52		9/10/21		X			X				X
23	SW-53		9/15/21		X			X				X
24	SW-54		9/10/21		X			X				X
25	SW-55		9/10/21		X			X				X
26	SW-23		9/13/21		X			X				X
27	BA-16 (10')		9/10/21		X			X				X
28	BA-17 (10')		9/10/21		X			X				X
29	BA-18 (16')		9/10/21		X			X				X
30	BA-32 (16')		9/10/21		X			X				X

Relinquished by: Myka Taylor
Date: 9-13-21 Time: 1156

Relinquished by: Myka Taylor
Date: 9-13-21 Time: 1156

Received by: Myka Taylor
Date: 9/13/21 Time: 1156

Received by: Myka Taylor
Date: 9/13/21 Time: 1156

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 5.1°C

Handwritten: #1/3

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

901 W. WASHINGTON ST. 100
Midland, Texas 79705
Tel (432) 692-4559
Fax (432) 692-3945

Client Name: EOG Resources		Site Manager: Brittany Long	
Project Name: Heart Trob Riser		Project #: 212C-MD-22363	
Project Location: Lea County, New Mexico		(MT-9113121)	
Invoice to: EOG Resources, Kevin Black		Sampler Signature: Myra Taylor	
Receiving Laboratory: Cardinal Laboratory		Date: 9/13/21 Time: 11:50	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE		
31	5W-95	9/10/21		X						
32	5W-27	9/10/21		X						
33	5W-29	9/10/21		X						
34	5W-30	9/10/21		X						
35	5W-31	9/10/21		X						
36	5W-32	9/10/21		X						
37	5W-33	9/10/21		X						
38	5W-34	9/10/21		X						
39	5W-35	9/10/21		X						
40	5W-36	9/10/21		X						

Relinquished by: Myra Taylor	Date: 9/13/21	Time: 11:50	Received by: Brittany Long	Date: 9/13/21	Time: 11:50
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
<input type="checkbox"/> STANDARD	
<input checked="" type="checkbox"/> RUSH: Same Day 24 hr	
<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 Chain of Custody Record



Tetra Tech, Inc.

3011 West Street, Ste 100
Midland, Texas 79705
Tel (432) 692-4559
Fax (432) 692-3946

Client Name: **EDG Resources** Site Manager: **Brittany Long**

Project Name: **Heart Throb Riser** Project #: **22C-MD-0205** (Int 9/13/21)

Project Location: **Lea County, New Mexico**

Invoice to: **EDG Resources, Kevin Black**

Receiving Laboratory: **Cardinal Laboratory** Sampler Signature: **Myles Taylor**

Comments:

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE		
41	SW-37	9/10/21		X	X	X	X	X		
42	SW-38	9/10/21		X	X	X	X	X		
43	SW-39	9/10/21		X	X	X	X	X		
43	SW-40	9/10/21		X	X	X	X	X		
44	SW-41	9/10/21		X	X	X	X	X		
45	SW-42	9/16/21		X	X	X	X	X		
46	SW-43	9/16/21		X	X	X	X	X		

Relinquished by: **Myles Taylor** Date: **9/13/21** Time: **1150**

Received by: **Brittany Long** Date: **9/13/21** Time: **1150**

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

LAB USE ONLY

REMARKS:

STANDARD

RUSH: Same Day **24 hr** 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: **5.1°C**

Relinquished by: **#113**

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



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

September 14, 2021

BRITTANY LONG

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: HEART THROB RISER SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/13/21 16:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	09/13/2021	Sampling Date:	09/13/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02559	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 14 (1') (H212536-01)

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	09/13/2021	ND	1.87	93.4	2.00	3.54	
Toluene*	<0.050	0.050	09/13/2021	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	99.2	2.00	3.56	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.99	99.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/14/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2021	ND	206	103	200	8.71	
DRO >C10-C28*	<10.0	10.0	09/14/2021	ND	198	99.0	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	09/14/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/13/2021	Sampling Date:	09/13/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02559	Sample Received By:	Tamara Oldaker
Project Location:	EOG - LEA CO NM		

Sample ID: BH - 15 (1') (H212536-02)

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	09/13/2021	ND	1.87	93.4	2.00	3.54	
Toluene*	<0.050	0.050	09/13/2021	ND	2.00	100	2.00	2.77	
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.98	99.2	2.00	3.56	
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.99	99.8	6.00	3.74	
Total BTEX	<0.300	0.300	09/13/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/14/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2021	ND	206	103	200	8.71	
DRO >C10-C28*	<10.0	10.0	09/14/2021	ND	198	99.0	200	6.63	
EXT DRO >C28-C36	<10.0	10.0	09/14/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 52954

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 52954
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/15/2021