

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: Robert Hamlet Date: 11/29/2021

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: Robert Hamlet Date: 11/29/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

SITE INFORMATION

Report Type: Closure Report NRM2034260587

General Site Information:

Site:	Heartthrob Riser SWD Pipeline					
Company:	EOG Resources					
Section, Township and Range	Unit C	Sec. 15	T 24S	R 33E		
Lease Number:						
County:	Lea County					
GPS:	32.222298			-103.5626		
Surface Owner:	State					
Mineral Owner:						
Directions:	FROM NM-128 AND BRININSTOOL RD GO N ON BRININSTOOL RD APPX 0.84MI, GO RIGHT ON LEASE RD APPX 0.31MI TO LOCATION					

Release Data:

Date Released:	11/3/2020
Type Release:	Produced Water
Source of Contamination:	Transfer Pump
Fluid Released:	70 bbl
Fluids Recovered:	50 bbl

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:	22.09' Below 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

**TETRA TECH**

August 18, 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 SWD Pipeline, Unit C, Section 15, Township 24 South, Range 33 East, Lea County, New Mexico. NRM2034260587

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 SWD Pipeline, Unit C, Section 15, Township 24 South, Range 33 East, Lea County, New Mexico (Site). The site coordinates are 32.222298°, -103.562600°. 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 November 3, 2020, and released approximately 70 barrels of produced water due to a failed transfer pump. Approximately 50 barrels of produced water were recovered. The release occurred on a pipeline ROW, impacting an area measuring approximately 515' X 83'. 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 10 approximately 0.9 miles from the site, and has a reported depth to groundwater of 22.09' below surface. Site characterization information is found in Appendix B.

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine

Tetra Tech

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TETRA TECH

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

Initial Assessment

On November 19, 2020, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of thirteen (13) auger holes (AH-1 through AH-13) were installed in the release footprint with depths ranging from surface to 4.0'-4.5' below surface. Additionally, fifteen (15) 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 laboratory reporting limits. However, all auger holes (AH-1 through AH-13) reported chloride concentrations above the 600 mg/kg threshold, with concentrations ranging from 882 mg/kg to 8,020 mg/kg. However, vertical delineation was not found in the areas of auger holes (AH-1, AH-2, AH-4, AH-5, AH-6, AH-7, AH-11, and AH-12).

Trenches

Based on the laboratory data, Tetra Tech personnel returned to the site on January 21, 2021, to install thirteen (13) trenches (T-1 through T-13) to a total depths ranging from surface to 5.0' below surface to have current data and vertically define the chloride impact in the areas of auger holes (AH-1 through AH-13), respectively. Chloride concentrations were reported above 600 mg/kg threshold, with concentrations ranging from 716 mg/kg to 12,300 mg/kg, at depths ranging from surface to 5.0' below surface. Additionally, all trenches showed vertical delineation at depths ranging from surface to 5.0' below surface, with the exception of the trench (T-8), that was installed in the area of auger hole (AH-8). Selected soil samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Remediation and Reclamation Activities

Tetra Tech personnel were onsite March 16, 2021 through April 6, 2021, to supervise the remediation and collect confirmation samples. The impacted areas were excavated to depths ranging from 3.5' below surface and 7.0' 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 103 bottom hole samples (BH-1 through BH-103) and 53 sidewall samples (SW-1 through



SW-53) were collected to ensure proper removal of the impacted soils. 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.

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

Approximately 5,245 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

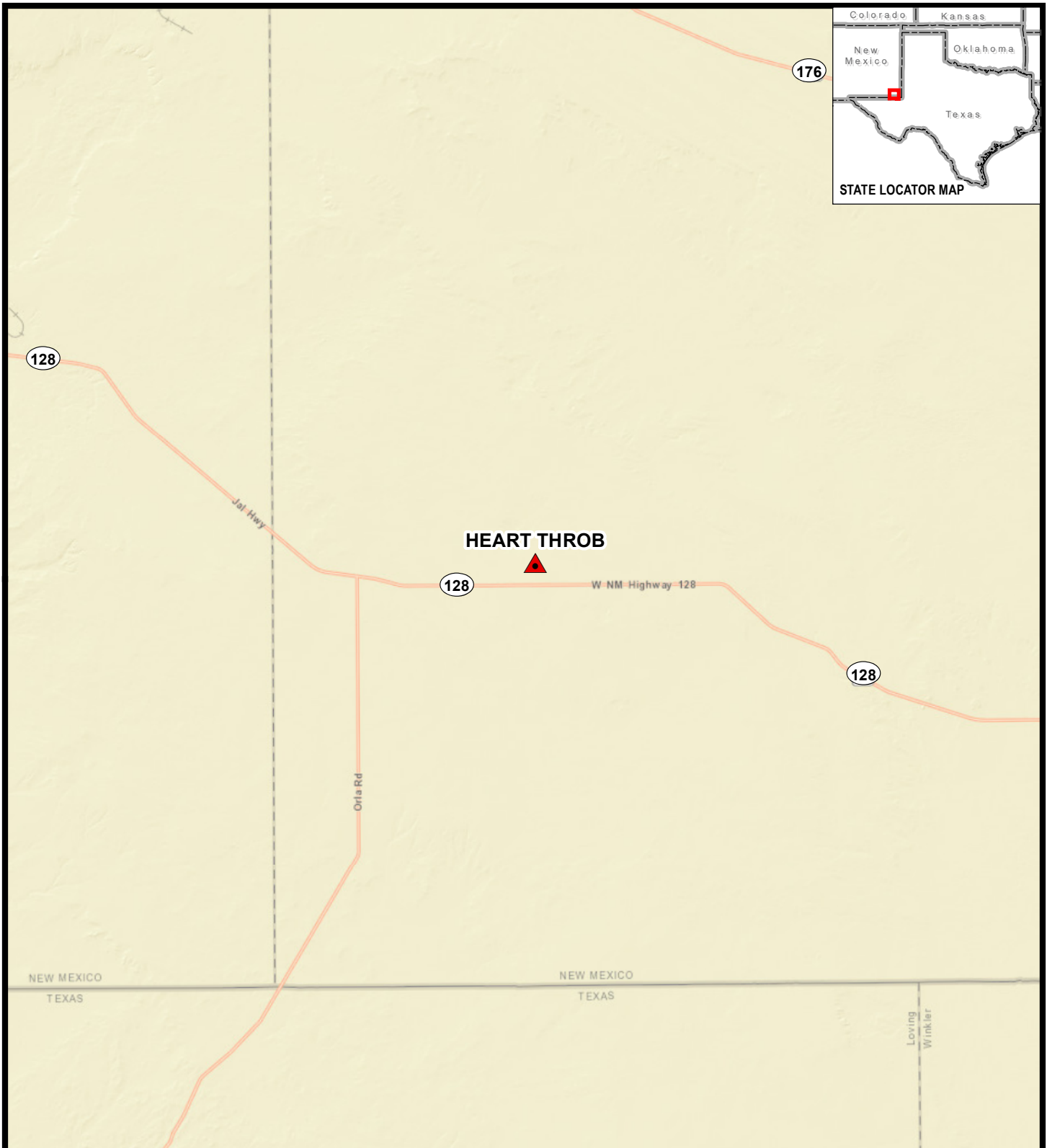
A handwritten signature in blue ink, appearing to read 'Brittany Long'.

Brittany Long,
Project Manager

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

Clair Gonzales, P.G.
Senior Project Manager

Figures



 SITE LOCATION



0 2.5 5
Miles
Approximate Scale in Miles

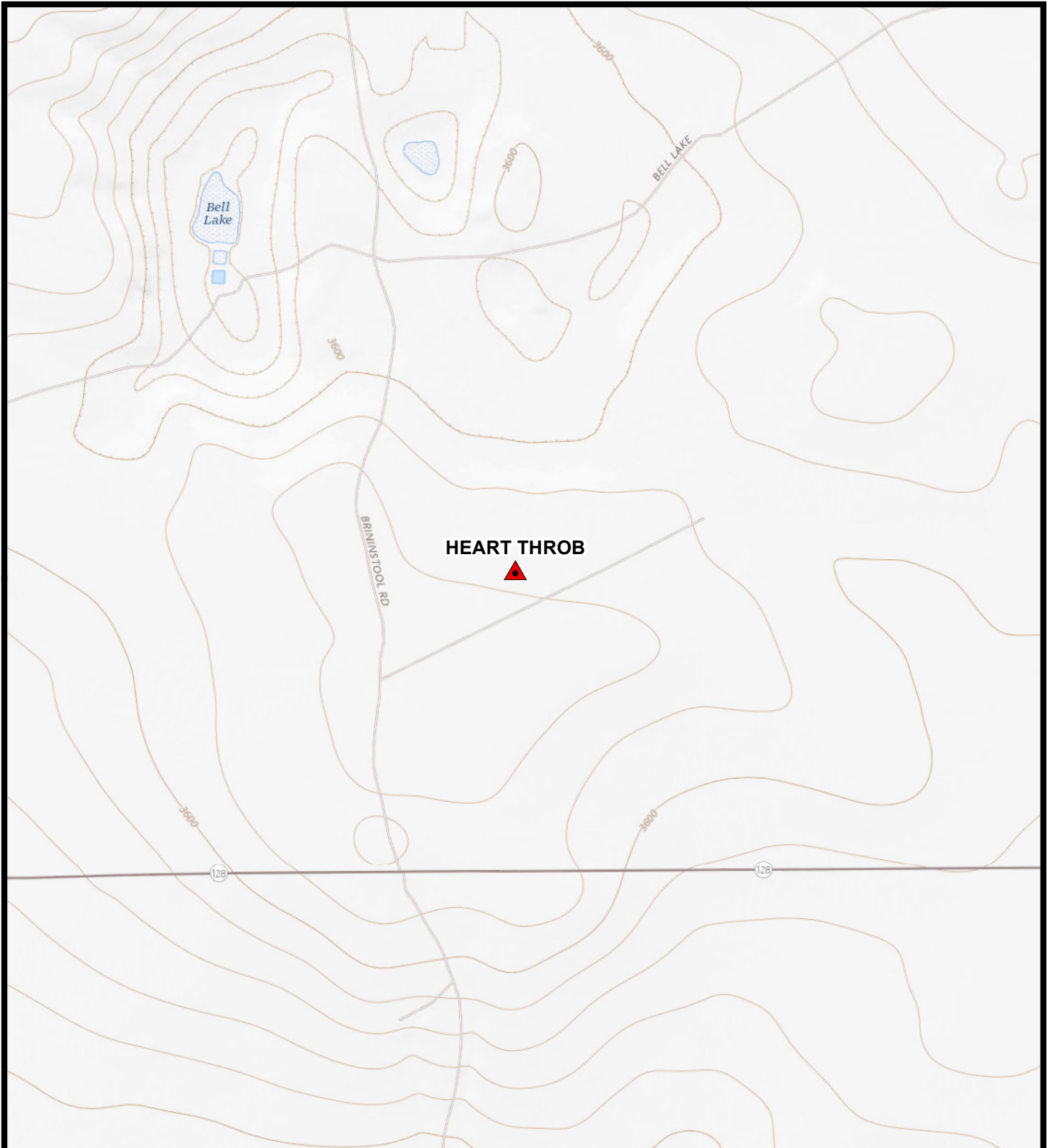
Source: ESRI Basemap - Streets, 2021.

OVERVIEW MAP
HEARTTHROB RISER SWD PIPELINE
Property Located at coordinates 32.222432°, -103.561158°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02410

FIGURE
1



 SITE LOCATION



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

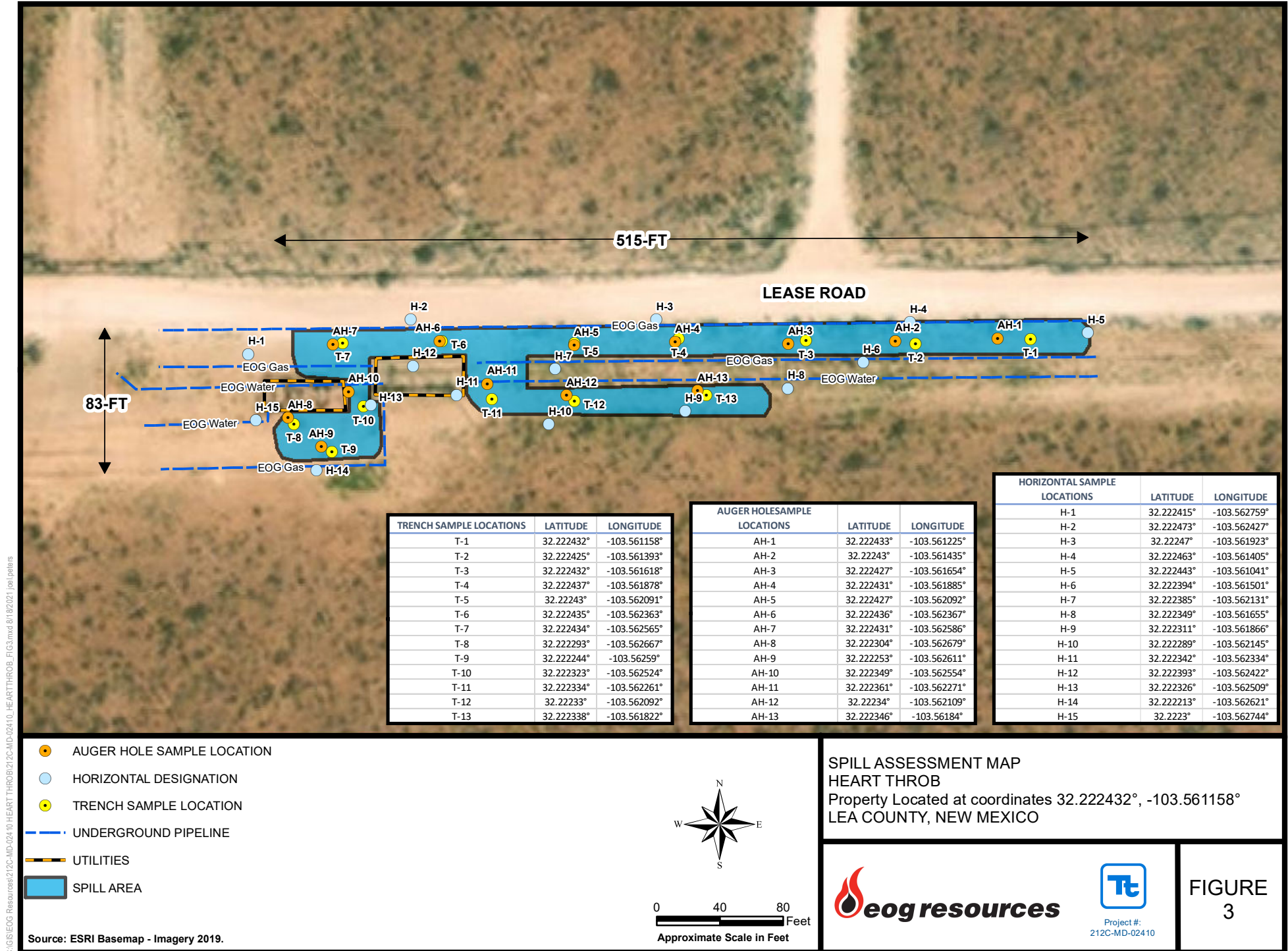
Source: USGS, The National Map,
Topo Base, 2021.

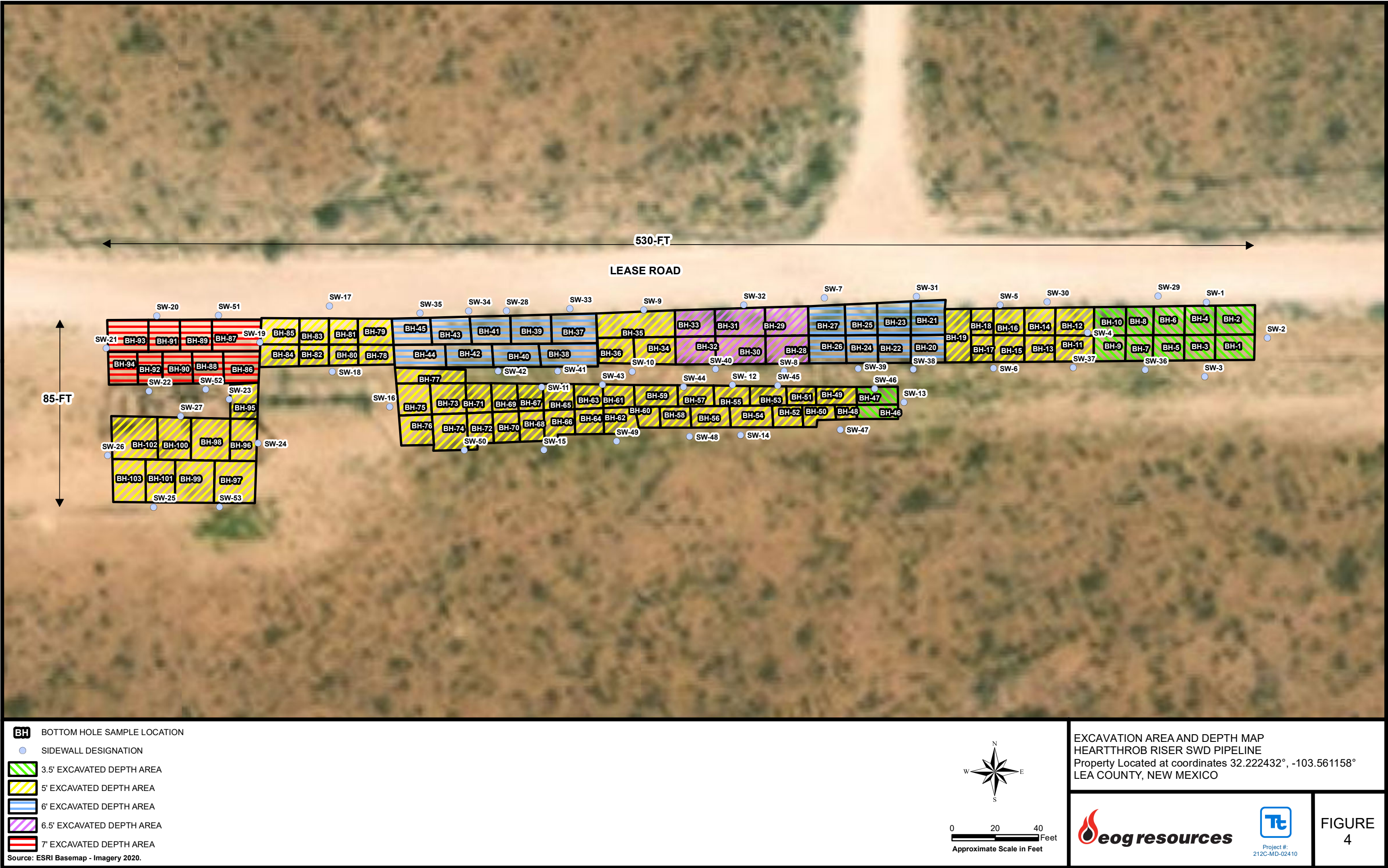
TOPOGRAPHIC MAP
HEARTTHROB RISER SWD PIPELINE
Property Located at coordinates 32.222432°, -103.561158°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-02410

FIGURE
2





Tables

Table 1
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
AH-1	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00202	<0.00202	<0.00202	<0.002020	<0.002020	3,890
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	2,850
T-1	1/21/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	7,890
	"	1	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,090
	"	2	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,730
	"	3	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	268
	"	4	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	13.2
AH-2	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	4,380
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	6,210
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	7,790
T-2	1/21/2021	0-1	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	8,770
	"	1	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	6,070
	"	2	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	7,080
	"	3	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	5,280
	"	4	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	1,730
	"	5	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	172
AH-3	11/19/2020	0-1	X		<49.8	<49.8	<49.8	<49.80	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	4,110
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,830
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	1,280
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	354
T-3	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	6,170
	"	1	X		-	-	-	-	-	-	-	-	-	6,840
	"	2	X		-	-	-	-	-	-	-	-	-	6,190
	"	3	X		-	-	-	-	-	-	-	-	-	4,230
	"	4	X		-	-	-	-	-	-	-	-	-	1,490
	"	5	X		-	-	-	-	-	-	-	-	-	158

Table 1
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
AH-4	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00201	<0.00201	<0.00201	<0.002010	<0.002010	3,960
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,860
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	8,020
T-4	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	6,790
	"	1	X		-	-	-	-	-	-	-	-	-	1,300
	"	2	X		-	-	-	-	-	-	-	-	-	170
	"	3	X		-	-	-	-	-	-	-	-	-	76
	"	4	X		-	-	-	-	-	-	-	-	-	493
	"	5	X		-	-	-	-	-	-	-	-	-	30.2
AH-5	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	3,930
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	6,470
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	6,160
T-5	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	12,300
	"	1	X		-	-	-	-	-	-	-	-	-	5,610
	"	2	X		-	-	-	-	-	-	-	-	-	5,910
	"	3	X		-	-	-	-	-	-	-	-	-	5,870
	"	4	X		-	-	-	-	-	-	-	-	-	2,010
	"	5	X		-	-	-	-	-	-	-	-	-	29.5
AH-6	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00202	<0.00202	<0.00202	<0.002020	<0.002020	3,860
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,620
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	6,070
T-6	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	6,730
	"	1	X		-	-	-	-	-	-	-	-	-	6,750
	"	2	X		-	-	-	-	-	-	-	-	-	7,520
	"	3	X		-	-	-	-	-	-	-	-	-	2,030
	"	4	X		-	-	-	-	-	-	-	-	-	1,080
	"	5	X		-	-	-	-	-	-	-	-	-	22

Table 1
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
AH-7	11/19/2020	0-1	X		<49.8	<49.8	<49.8	<49.80	<0.00202	<0.00202	<0.00202	<0.002020	<0.002020	5,730
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,400
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	5,260
T-7	1/26/2021	0-1	X		-	-	-	-	-	-	-	-	-	7,080
	"	1	X		-	-	-	-	-	-	-	-	-	5,040
	"	2	X		-	-	-	-	-	-	-	-	-	3,670
	"	3	X		-	-	-	-	-	-	-	-	-	351
	"	4	X		-	-	-	-	-	-	-	-	-	716
	"	5	X		-	-	-	-	-	-	-	-	-	158
AH-8	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	5,760
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,400
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	6,650
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	363
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	91.6
T-8	1/27/2021	0-1	X		-	-	-	-	-	-	-	-	-	6,690
	"	1	X		-	-	-	-	-	-	-	-	-	4,960
	"	2	X		-	-	-	-	-	-	-	-	-	5,970
	"	3	X		-	-	-	-	-	-	-	-	-	6,050
	"	4	X		-	-	-	-	-	-	-	-	-	1,120
	"	5	X		-	-	-	-	-	-	-	-	-	3,600
AH-9	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00198	<0.00198	<0.00198	<0.001980	<0.001980	4,500
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	6,280
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	4,930
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	309
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	53.9
T-9	1/27/2021	0-1	X		-	-	-	-	-	-	-	-	-	5,180
	"	1	X		-	-	-	-	-	-	-	-	-	5,430
	"	2	X		-	-	-	-	-	-	-	-	-	4,920
	"	3	X		-	-	-	-	-	-	-	-	-	2,470
	"	4	X		-	-	-	-	-	-	-	-	-	591
	"	5	X		-	-	-	-	-	-	-	-	-	16.3

Table 1
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
AH-10	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	5,620
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	1,430
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	121
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	32.0
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	38.7
T-10	1/27/2021	0-1	X		-	-	-	-	-	-	-	-	-	5,880
	"	1	X		-	-	-	-	-	-	-	-	-	3,580
	"	2	X		-	-	-	-	-	-	-	-	-	2,360
	"	3	X		-	-	-	-	-	-	-	-	-	944
	"	4	X		-	-	-	-	-	-	-	-	-	44.3
	"	5	X		-	-	-	-	-	-	-	-	-	14.0
AH-11	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00198	<0.00198	<0.00198	<0.001980	<0.001980	5,750
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	5,870
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	5,080
T-11	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	4,130
	"	1	X		-	-	-	-	-	-	-	-	-	4,020
	"	2	X		-	-	-	-	-	-	-	-	-	2,550
	"	3	X		-	-	-	-	-	-	-	-	-	535
	"	4	X		-	-	-	-	-	-	-	-	-	264
	"	5	X		-	-	-	-	-	-	-	-	-	39.2
AH-12	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00199	<0.00199	<0.00199	<0.001990	<0.001990	5,180
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	4,850
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	2,370
T-12	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	5,330
	"	1	X		-	-	-	-	-	-	-	-	-	6,110
	"	2	X		-	-	-	-	-	-	-	-	-	4,400
	"	3	X		-	-	-	-	-	-	-	-	-	4,660
	"	4	X		-	-	-	-	-	-	-	-	-	780
	"	5	X		-	-	-	-	-	-	-	-	-	17.8

Table 1
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
AH-13	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	3,290
	"	1-1.5	X		-	-	-	-	-	-	-	-	-	882
	"	2-2.5	X		-	-	-	-	-	-	-	-	-	30.1
	"	3-3.5	X		-	-	-	-	-	-	-	-	-	14.1
	"	4-4.5	X		-	-	-	-	-	-	-	-	-	38.6
T-13	1/25/2021	0-1	X		-	-	-	-	-	-	-	-	-	3,630
	"	1	X		-	-	-	-	-	-	-	-	-	35.5
	"	2	X		-	-	-	-	-	-	-	-	-	13.3
	"	3	X		-	-	-	-	-	-	-	-	-	259
	"	4	X		-	-	-	-	-	-	-	-	-	14.4
H-1	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00202	<0.00202	<0.00202	<0.002020	<0.002020	23.3
H-2	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00201	<0.00201	<0.00201	<0.002010	<0.002010	97.5
H-3	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00202	0.00423	0.00392	0.009330	0.01748	53.0
H-4	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00202	0.00376	<0.00202	0.004410	0.008170	16.0
H-5	11/19/2020	0-1	X		<49.8	<49.8	<49.8	<49.80	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	9.63
H-6	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	14.0
H-7	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00201	<0.00201	<0.00201	<0.002010	<0.002010	17.7
H-8	11/19/2020	0-1	X		<49.8	<49.8	<49.8	<49.80	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	9.31
H-9	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00198	<0.00198	<0.00198	<0.001980	<0.001980	10.9
H-10	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00198	<0.00198	<0.00198	<0.001980	<0.001980	27.0
H-11	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	30.0
H-12	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00199	<0.00199	<0.00199	<0.001990	<0.001990	38.8
H-13	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00199	<0.00199	<0.00199	<0.001990	<0.001990	76.1
H-14	11/19/2020	0-1	X		<49.9	<49.9	<49.9	<49.90	<0.00198	<0.00198	<0.00198	<0.001980	<0.001980	21.7
H-15	11/19/2020	0-1	X		<50.0	<50.0	<50.0	<50.00	<0.00200	<0.00200	<0.00200	<0.002000	<0.002000	111

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Not Analyzed



Exceeds Thresholds

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
BH-1	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	13.3
BH-2	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	19.6
BH-3	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	69.1
BH-4	3/24/2021	3.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	10.6
BH-5	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	65
BH-6	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	0.00642	0.00642	66.6
BH-7	3/24/2021	3.5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	72.3
BH-8	3/24/2021	3.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	72.7
BH-9	3/24/2021	3.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	61.2
BH-10	3/24/2021	3.5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	16.3
BH-11	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	62.8
BH-12	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	0.0266	0.0266	66
BH-13	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	77.8
BH-14	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	0.0263	0.0263	71
BH-15	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	246
BH-16	3/24/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	203
BH-17	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	208
BH-18	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	214
BH-19	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	0.00885	0.00885	57.7
BH-20	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	0.00502	0.00502	48.8
BH-21	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	0.0167	0.0167	21.5
BH-22	3/24/2021	6'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	0.00932	0.00932	20.5
BH-23	3/24/2021	6'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	0.00863	0.00863	20.6
BH-24	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	0.00921	0.00921	21.3

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
BH-25	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	26
BH-26	3/24/2021	6'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	35.8
BH-27	3/24/2021	6'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	77.3
BH-28	3/24/2021	6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	18.7
BH-29	3/24/2021	6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	181
BH-30	3/24/2021	6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	60.3
BH-31	3/24/2021	6.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	61.9
BH-32	3/24/2021	6.5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	61.5
BH-33	3/24/2021	6.5'	X	-	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	162
BH-34	3/24/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	517
BH-35	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	551
BH-36	3/24/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	24
BH-37	3/24/2021	6'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	249
BH-38	3/24/2021	6'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	31.4
BH-39	3/24/2021	6'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	32.3
BH-40	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	63.1
BH-41	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	58.7
BH-42	3/24/2021	6'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	69.5
BH-43	3/24/2021	6'	X	-	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	76.7
BH-44	3/24/2021	6'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	168
BH-45	3/24/2021	6'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	178
BH-46	3/24/2021	3.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	10.8
BH-47	3/24/2021	3.5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	15.5
BH-48	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	11.1

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
BH-49	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	0.0275	0.0275	12.6
BH-50	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	33
BH-51	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	26.5
BH-52	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	0.00414	0.00414	27.9
BH-53	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	29
BH-54	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	8.78
BH-55	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	6.6
BH-56	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	9.85
BH-57	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	7.28
BH-58	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	6.62
BH-59	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	9.88
BH-60	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	9.71
BH-61	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	6.05
BH-62	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	6.05
BH-63	3/24/2021	5'	X	-	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	7.86
BH-64	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	6.35
BH-65	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	8.19
BH-66	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	5.98
BH-67	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	7.65
BH-68	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	12.6
BH-69	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	11.5
BH-70	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	10.7
BH-71	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	7.11
BH-72	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	6.04

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
BH-73	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	0.00233	132
BH-74	3/24/2021	5'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	7.75
BH-75	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	7.56
BH-76	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	0.00529	0.00529	95.6
BH-77	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	97.4
BH-78	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	17.1
BH-79	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	16.4
BH-80	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	18.2
BH-81	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	35.9
BH-82	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	37.6
BH-83	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	65.7
BH-84	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	68.6
BH-85	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	44.5
BH-86	3/24/2021	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	41.7
BH-87	3/24/2021	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	13.2
BH-88	3/24/2021	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	101
BH-89	3/24/2021	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	102
BH-90	3/24/2021	7'	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	94.5
BH-91	3/24/2021	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	5.07
BH-92	3/24/2021	7'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	9.59
BH-93	3/24/2021	7'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<4.95
BH-94	3/24/2021	7'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	17.7
BH-95	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	48
BH-96	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	51.2

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
BH-97	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	246
BH-98	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	283
BH-99	3/24/2021	5'	X	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	276
BH-100	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	285
BH-101	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	302
BH-102	3/24/2021	5'	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	285
BH-103	3/24/2021	5'	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	46.7
SW-1	3/24/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	57.2
SW-2	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	59.4
SW-3	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	67.2
SW-4	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	71
SW-5	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	8.84
SW-6	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	6.18
SW-7	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	6.96
SW-8	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	90.9
SW-9	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	101
SW-10	3/24/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	12.8
SW-11	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	11.5
SW-12	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	11.3
SW-13	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	5.94
SW-14	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	6.5
SW-15	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00404	<0.00202	5.37
SW-16	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00200	14.3
SW-17	3/24/2021	-	X	-	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	76

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
SW-18	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	83.2
SW-19	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	73
SW-20	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00202	18
SW-21	3/24/2021	-	X	-	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00201	12.7
SW-22	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	0.00411	<0.00201	0.0042	<0.00402	0.00831	12.4
SW-23	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	0.00288	<0.00201	<0.00201	<0.00402	0.00288	17.8
SW-24	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	17.8
SW-25	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	12.7
SW-26	3/24/2021	-	X	-	<49.9	<49.9	<49.9	<49.9	0.00308	<0.00201	<0.00201	<0.00402	0.00308	12.8
SW-27	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	15
SW-28	3/24/2021	-	X	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	207
SW-29	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-30	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-31	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-32	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-33	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-34	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-35	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-36	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-37	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-38	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-39	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-40	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-41	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

Table 2
EOG
Heartthrob Riser SWD Pipeline 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	GRO	DRO	MRO	Total						
SW-42	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-43	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-44	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-45	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-46	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-47	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-48	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-49	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-50	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-51	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-52	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-53	4/6/2021	-	X	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0

(-)

Not Analyzed

Photos

EOG Resources
Heartthrob Riser SWD Pipeline
Lea County, New Mexico



View of Remediation Activities – View East



View of Remediation Activities – View South

EOG Resources
Heartthrob Riser SWD Pipeline
Lea County, New Mexico



View of Remediation Activities – View Southeast



View of Remediation Activities – View South

Appendix A

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NRM2034260587
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)
Contact mailing address 5509 Champions Drive Midland, TX 79706	

Location of Release Source

Latitude 32.222298° Longitude -103.562600°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Heartthrob Riser SWD Pipeline	Site Type SWD Pipeline
Date Release Discovered 11/3/20	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	15	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 70	Volume Recovered (bbls) 50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The operator arrived on location and discovered water being released from the transfer pump at the Heartthrob Riser SWD Pipeline. It was discovered that the bearings went out on the transfer pump. Approximately 70 bbls of produced water was released around the riser and down the pipeline ROW with 50 bbls recovered.

Incident ID	NRM2034260587
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ 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)? E-mail notification to District 1 Spills Inbox on 11/4/20.	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ 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>11-30-20</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>12/7/2020</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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ 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.

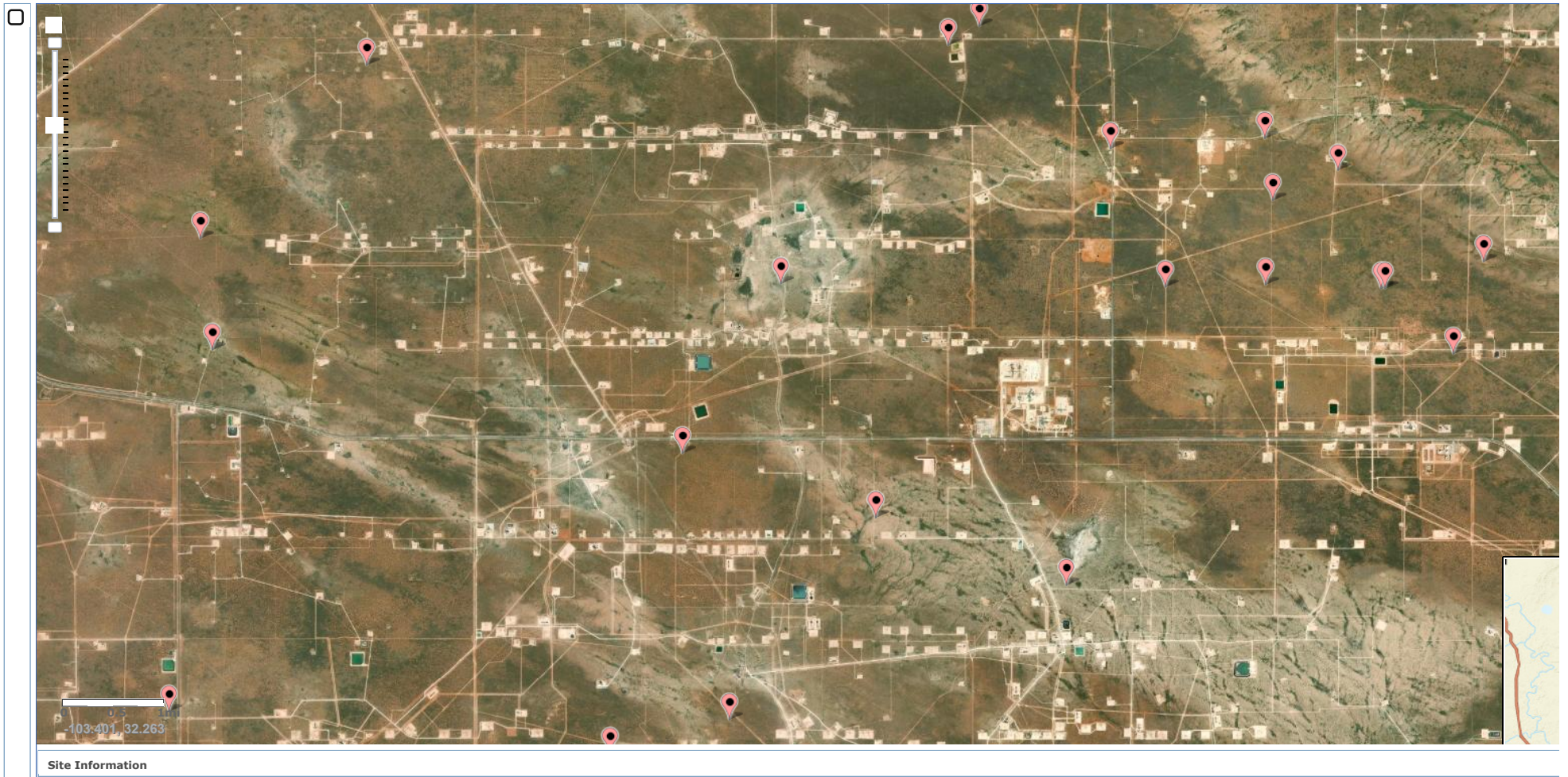
Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

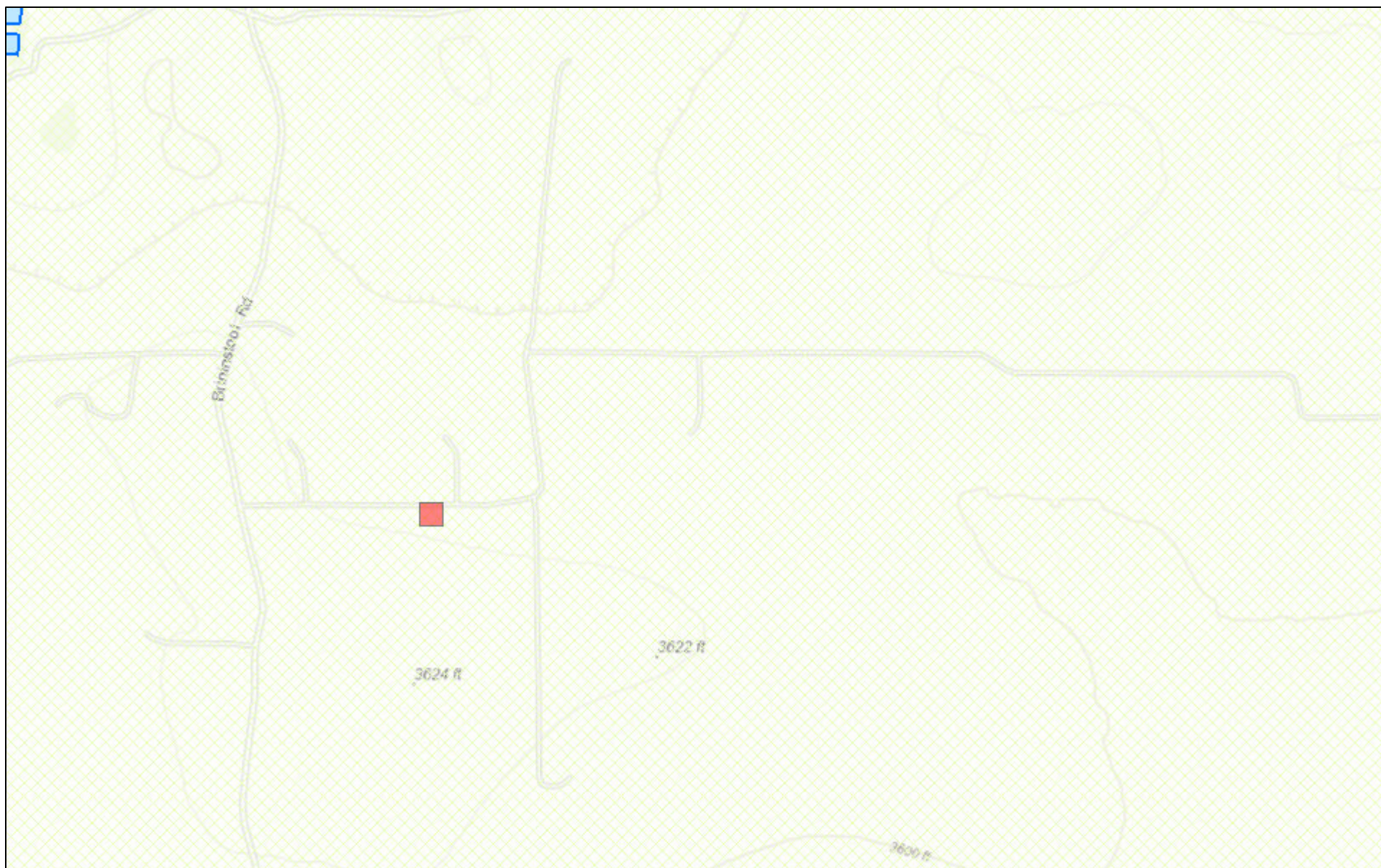
Appendix B



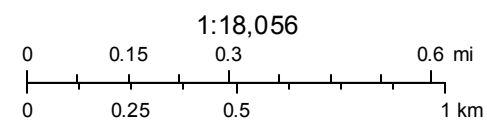
National Water Information System: Mapper



New Mexico NFHL Data



November 16, 2020



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



USGS Home
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Search USGS

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

Geographic Area:

New Mexico

GO

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- [Introducing The Next Generation of USGS Water Data for the Nation](#)
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Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321348103340401

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

USGS 321348103340401 24S.33E.10.13123

Lea County, New Mexico
Latitude 32°14'04.9", Longitude 103°34'02.4" NAD83
Land-surface elevation 3,592 feet above NAVD88
The depth of the well is 36 feet below land surface.
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 of measurement	Water-level approval status
1953-11-27		D	72019	24.60				U		U	A
1973-04-17		D	72019	22.20				U		U	A
1976-01-21		D	72019	20.39				U		U	A
1981-03-20		D	72019	20.02				U		U	A
1986-03-07		D	72019	15.87				U		U	A
1991-05-24		D	72019	21.92				U		U	A
1996-03-13		D	72019	22.09				S		U	A
2015-12-18	15:45 MST	m	00000				O	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	00000	Not determined
Parameter code	72019	Depth to water level, feet below land surface
Status		The reported water-level measurement represents a static level
Status	O	Complete obstruction was encountered in the well (no water level was recorded)
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey

Section	Code	Description
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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AccessibilityFOIAPrivacyPolicies 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: 2021-01-20 18:35:27 EST
0.34 0.29 nadww01



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	40	20	20
C 02309		CUB	LE	2	2	2	25	24S	33E	639708	3562997	60	30	30
C 02310		CUB	LE	2	4	2	33	24S	33E	634420	3560893	120	70	50
C 02311		CUB	LE	2	3	2	33	24S	33E	634391	3560877	120	70	50
C 02430		CUB	LE	3	3	3	16	24S	33E	633377	3564732*	643	415	228
C 02431		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	525	415	110
C 02432		CUB	LE	4	4	4	17	24S	33E	633175	3564728*	640	415	225
C 02563		CUB	LE	1	4	2	33	24S	33E	634639	3560923*	120		
C 02564		CUB	LE	2	4	2	33	24S	33E	634839	3560923*	120		
C 02890		C	LE	2	4	29	24S	33E	633114	3562012*		500		
C 03565 POD3		CUB	LE	3	4	08	24S	33E	632763	3566546			1533	
C 03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518			
C 03600 POD1		CUB	LE	2	2	1	26	24S	33E	637275	3563023			
C 03600 POD2		CUB	LE	4	4	1	25	24S	33E	638824	3562329			
C 03600 POD3		CUB	LE	3	4	2	26	24S	33E	637784	3562340			
C 03600 POD4		CUB	LE	3	3	1	26	24S	33E	636617	3562293			
C 03600 POD5		CUB	LE	3	2	4	26	24S	33E	637857	3562020			
C 03600 POD6		CUB	LE	3	1	4	26	24S	33E	637383	3562026			
C 03600 POD7		CUB	LE	3	1	3	26	24S	33E	636726	3561968			
C 03601 POD1		CUB	LE	4	4	2	23	24S	33E	638124	3563937			
C 03601 POD2		CUB	LE	3	2	4	23	24S	33E	637846	3563588			
C 03601 POD3		CUB	LE	1	3	3	24	24S	33E	638142	3563413			
C 03601 POD4		CUB	LE	3	3	3	24	24S	33E	638162	3561375			
C 03601 POD5		CUB	LE	2	4	4	23	24S	33E	637988	3563334			
C 03601 POD6		CUB	LE	1	4	4	23	24S	33E	637834	3563338			
C 03601 POD7		CUB	LE	4	4	4	23	24S	33E	637946	3563170			

*UTM location was derived from PLSS - see Help

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03602 POD2	CUB	LE	4	4	1	25	24S	33E	638824	3562329				
C 03603 POD1	CUB	LE	3	2	2	35	24S	33E	637805	3561225				
C 03603 POD2	CUB	LE	3	1	2	35	24S	33E	637384	3561167				
C 03603 POD3	CUB	LE	4	1	1	35	24S	33E	636890	3561092				
C 03603 POD4	CUB	LE	3	2	4	35	24S	33E	637789	3560461				
C 03603 POD5	CUB	LE	3	3	2	35	24S	33E	636745	3560767				
C 03603 POD6	CUB	LE	3	1	3	35	24S	33E	636749	3560447				
C 03662 POD1	C	LE	3	1	2	23	24S	33E	637342	3564428		550	110	440
C 03666 POD1	C	LE	2	3	4	13	24S	33E	639132	3565078		650	390	260
C 03679 POD1	C	ED	1	4	2	14	24S	33E	603567	3581547		700	575	125
C 03917 POD1	C	LE	4	1	3	13	24S	33E	638374	3565212		600	420	180
C 04014 POD2	CUB	LE	4	4	2	01	24S	33E	639656	3568917		95	81	14
C 04014 POD3	CUB	LE	2	4	2	01	24S	33E	639497	3569007		95	87	8
C 04014 POD4	CUB	LE	3	4	2	01	24S	33E	639295	3568859		96	86	10
C 04014 POD5	CUB	LE	1	4	2	01	24S	33E	639284	3569086		95	85	10
C 04339 POD1	CUB	LE	1	3	3	23	24S	33E	636525	3563309		47		
C 04339 POD10	CUB	LE	4	1	4	23	24S	33E	637688	3563503		49		
C 04339 POD2	CUB	LE	2	3	3	23	24S	33E	636789	3563315				
C 04339 POD3	CUB	LE	2	4	3	23	24S	33E	637273	3563323		38		
C 04339 POD4	CUB	LE	2	4	3	23	24S	33E	637273	3563323		47		
C 04339 POD5	CUB	LE	2	3	4	23	24S	33E	637580	3563328		54		
C 04339 POD6	CUB	LE	3	1	2	23	24S	33E	637340	3564386		60		
C 04339 POD7	CUB	LE	4	4	2	23	24S	33E	636473	3564011		43		
C 04339 POD8	CUB	LE	1	1	3	23	24S	33E	636519	3563681		30		
C 04339 POD9	CUB	LE	3	4	2	23	24S	33E	637731	3563913		45		

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.

Average Depth to Water: **300 feet**

Minimum Depth: **20 feet**

Maximum Depth: **1533 feet**

Record Count: 51

PLSS Search:

Township: 24S

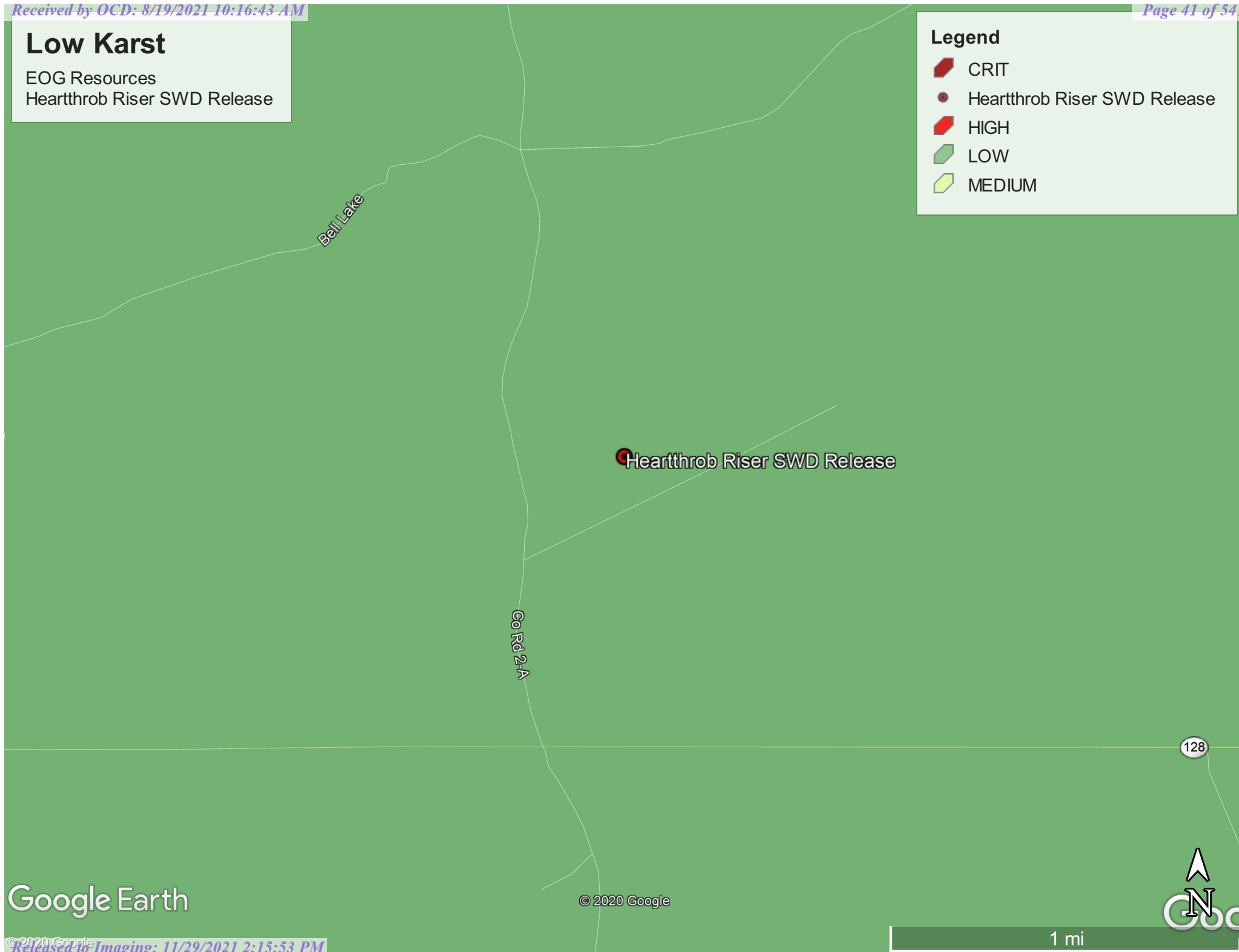
Range: 33E

Low Karst

EOG Resources
Heartthrob Riser SWD Release

Legend

-  CRIT
-  Heartthrob Riser SWD Release
-  HIGH
-  LOW
-  MEDIUM



Google Earth

© 2020 Google

Water Well Data
Average Depth to Groundwater (ft)
EOG - Heart Throb Riser SWD Release
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	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			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	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

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

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

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

Appendix C

Certificate of Analysis Summary 678615

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
 Report Date: 11.25.2020 15:23
 Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-001	678615-002	678615-003	678615-004	678615-005	678615-006
	<i>Field Id:</i>	AH-1 (0-1')	AH-1 (1'-1.5')	AH-2 (0-1')	AH-2 (1'-1.5')	AH-2 (2-2.5')	AH-3 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.21.2020 07:00		11.21.2020 07:00			11.21.2020 07:00
	<i>Analyzed:</i>	11.21.2020 22:36		11.21.2020 22:56			11.21.2020 23:17
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL			mg/kg RL
Benzene		<0.00202 0.00202		<0.00200 0.00200			<0.00200 0.00200
Toluene		<0.00202 0.00202		<0.00200 0.00200			<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202		<0.00200 0.00200			<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403		<0.00400 0.00400			<0.00399 0.00399
o-Xylene		<0.00202 0.00202		<0.00200 0.00200			<0.00200 0.00200
Total Xylenes		<0.002020 0.002020		<0.002000 0.002000			<0.002000 0.002000
Total BTEX		<0.002020 0.002020		<0.002000 0.002000			<0.002000 0.002000
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15
	<i>Analyzed:</i>	11.21.2020 13:15	11.21.2020 13:22	11.21.2020 13:44	11.21.2020 13:51	11.21.2020 13:59	11.21.2020 14:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3890 25.3	2850 25.3	4380 49.6	6210 49.5	7790 50.3	4110 24.8
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 15:00		11.24.2020 15:00			11.24.2020 15:00
	<i>Analyzed:</i>	11.24.2020 22:59		11.25.2020 00:06			11.25.2020 00:28
	<i>Units/RL:</i>	mg/kg RL		mg/kg RL			mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0		<50.0 50.0			<49.8 49.8
Diesel Range Organics (DRO)		<50.0 50.0		<50.0 50.0			<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0		<50.0 50.0			<49.8 49.8
Total TPH		<50.00 50.00		<50.00 50.00			<49.80 49.80

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 678615

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
 Report Date: 11.25.2020 15:23
 Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-007	678615-008	678615-009	678615-010	678615-011	678615-012
	<i>Field Id:</i>	AH-3 (1'-1.5')	AH-3 (2'-2.5')	AH-3 (3'-3.5')	AH-4 (0-1')	AH-4 (1'-1.5')	AH-4 (2-2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>				11.21.2020 07:00		
	<i>Analyzed:</i>				11.21.2020 23:37		
	<i>Units/RL:</i>				mg/kg RL		
Benzene					<0.00201 0.00201		
Toluene					<0.00201 0.00201		
Ethylbenzene					<0.00201 0.00201		
m,p-Xylenes					<0.00402 0.00402		
o-Xylene					<0.00201 0.00201		
Total Xylenes					<0.002010 0.002010		
Total BTEX					<0.002010 0.002010		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15
	<i>Analyzed:</i>	11.21.2020 14:13	11.21.2020 14:21	11.21.2020 14:43	11.21.2020 14:50	11.21.2020 15:12	11.21.2020 15:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5830 49.9	1280 25.0	354 5.02	3960 24.8	5860 49.8	8020 50.0
TPH By SW8015 Mod	<i>Extracted:</i>				11.24.2020 15:00		
	<i>Analyzed:</i>				11.25.2020 00:51		
	<i>Units/RL:</i>				mg/kg RL		
Gasoline Range Hydrocarbons (GRO)					<50.0 50.0		
Diesel Range Organics (DRO)					<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)					<50.0 50.0		
Total TPH					<50.00 50.00		

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 678615



Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:23
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-013	678615-014	678615-015	678615-016	678615-017	678615-018
	<i>Field Id:</i>	AH-5 (0-1')	AH-5 (1'-1.5')	AH-5 (2'-2.5')	AH-6 (0-1')	AH-6 (1-1.5')	AH-6 (2-2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.21.2020 07:00			11.21.2020 07:00		
	<i>Analyzed:</i>	11.21.2020 23:57			11.22.2020 00:18		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Benzene		<0.00200 0.00200			<0.00202 0.00202		
Toluene		<0.00200 0.00200			<0.00202 0.00202		
Ethylbenzene		<0.00200 0.00200			<0.00202 0.00202		
m,p-Xylenes		<0.00399 0.00399			<0.00403 0.00403		
o-Xylene		<0.00200 0.00200			<0.00202 0.00202		
Total Xylenes		<0.002000 0.002000			<0.002020 0.002020		
Total BTEX		<0.002000 0.002000			<0.002020 0.002020		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:15	11.21.2020 12:45
	<i>Analyzed:</i>	11.21.2020 15:27	11.21.2020 15:34	11.21.2020 15:42	11.21.2020 15:49	11.21.2020 15:56	11.21.2020 16:40
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		3930 24.8	6470 50.4	6160 50.3	3860 25.0	5620 50.0	6070 50.0
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 15:00			11.24.2020 15:00		
	<i>Analyzed:</i>	11.25.2020 01:13			11.25.2020 01:35		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0			<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			<49.9 49.9		
Total TPH		<50.00 50.00			<49.90 49.90		

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678615



Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:23
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-019	678615-020	678615-021	678615-022	678615-023	678615-024
	<i>Field Id:</i>	AH-7 (0-1')	AH-7 (1'-1.5')	AH-7 (2-2.5')	AH-8 (0-1')	AH-8 (1'-1.5')	AH-8 (2'-2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.21.2020 07:00			11.21.2020 07:00		
	<i>Analyzed:</i>	11.22.2020 00:38			11.22.2020 00:59		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Benzene		<0.00202 0.00202			<0.00200 0.00200		
Toluene		<0.00202 0.00202			<0.00200 0.00200		
Ethylbenzene		<0.00202 0.00202			<0.00200 0.00200		
m,p-Xylenes		<0.00403 0.00403			<0.00399 0.00399		
o-Xylene		<0.00202 0.00202			<0.00200 0.00200		
Total Xylenes		<0.002020 0.002020			<0.002000 0.002000		
Total BTEX		<0.002020 0.002020			<0.002000 0.002000		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45
	<i>Analyzed:</i>	11.21.2020 17:02	11.21.2020 17:10	11.21.2020 17:17	11.21.2020 17:24	11.21.2020 17:46	11.21.2020 17:54
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5730 49.5	5400 50.5	5260 50.5	5760 50.5	5400 49.9	6650 49.5
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 15:00			11.24.2020 15:00		
	<i>Analyzed:</i>	11.25.2020 01:58			11.25.2020 02:20		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			<50.0 50.0		
Diesel Range Organics (DRO)		<49.8 49.8			<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8			<50.0 50.0		
Total TPH		<49.80 49.80			<50.00 50.00		

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678615

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:23
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-025	678615-026	678615-027	678615-028	678615-029	678615-030
	<i>Field Id:</i>	AH-8 (3-3.5')	AH-8 (04-4.5')	AH-9 (0-1')	AH-9 (1-1.5')	AH-9 (2'-2.5')	AH-9 (3-3.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>			11.21.2020 07:00			
	<i>Analyzed:</i>			11.22.2020 01:19			
	<i>Units/RL:</i>			mg/kg RL			
Benzene				<0.00198 0.00198			
Toluene				<0.00198 0.00198			
Ethylbenzene				<0.00198 0.00198			
m,p-Xylenes				<0.00396 0.00396			
o-Xylene				<0.00198 0.00198			
Total Xylenes				<0.001980 0.001980			
Total BTEX				<0.001980 0.001980			
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45
	<i>Analyzed:</i>	11.21.2020 18:01	11.21.2020 18:08	11.21.2020 18:16	11.21.2020 18:23	11.21.2020 18:45	11.21.2020 18:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		363 5.02	91.6 4.97	4500 25.2	6280 50.5	4930 49.8	309 5.00
TPH By SW8015 Mod	<i>Extracted:</i>			11.24.2020 15:00			
	<i>Analyzed:</i>			11.25.2020 02:42			
	<i>Units/RL:</i>			mg/kg RL			
Gasoline Range Hydrocarbons (GRO)				<50.0 50.0			
Diesel Range Organics (DRO)				<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)				<50.0 50.0			
Total TPH				<50.00 50.00			

BRL - Below Reporting Limit

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Certificate of Analysis Summary 678615

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
 Report Date: 11.25.2020 15:23
 Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-031	678615-032	678615-033	678615-034	678615-035	678615-036
	<i>Field Id:</i>	AH-9 (4-4.5')	AH-10 (0-1')	AH-10 (1-1.5')	AH-10 (2-2.5')	AH-10 (3-3.5')	AH-10(4-4.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>		11.21.2020 07:00				
	<i>Analyzed:</i>		11.22.2020 01:40				
	<i>Units/RL:</i>		mg/kg RL				
Benzene			<0.00200 0.00200				
Toluene			<0.00200 0.00200				
Ethylbenzene			<0.00200 0.00200				
m,p-Xylenes			<0.00399 0.00399				
o-Xylene			<0.00200 0.00200				
Total Xylenes			<0.002000 0.002000				
Total BTEX			<0.002000 0.002000				
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45	11.21.2020 12:45
	<i>Analyzed:</i>	11.21.2020 19:15	11.21.2020 19:22	11.21.2020 19:29	11.21.2020 19:37	11.21.2020 19:44	11.21.2020 19:51
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		53.9 5.02	5620 49.6	1430 25.0	121 5.04	32.0 4.98	38.7 5.00
TPH By SW8015 Mod	<i>Extracted:</i>		11.24.2020 15:00				
	<i>Analyzed:</i>		11.25.2020 03:04				
	<i>Units/RL:</i>		mg/kg RL				
Gasoline Range Hydrocarbons (GRO)			<49.9 49.9				
Diesel Range Organics (DRO)			<49.9 49.9				
Motor Oil Range Hydrocarbons (MRO)			<49.9 49.9				
Total TPH			<49.90 49.90				

BRL - Below Reporting Limit

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Certificate of Analysis Summary 678615



Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:23
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678615-037	678615-038	678615-039	678615-040	678615-041	678615-042
	<i>Field Id:</i>	AH-11 (0-1')	AH-11 (1-1.5')	AH-11 (2-2.5')	AH-12 (0-1')	AH-12(1-1.5')	AH-12 (2-2.5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.21.2020 16:00			11.21.2020 16:00		
	<i>Analyzed:</i>	11.22.2020 17:49			11.22.2020 18:14		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Benzene		<0.00198 0.00198			<0.00199 0.00199		
Toluene		<0.00198 0.00198			<0.00199 0.00199		
Ethylbenzene		<0.00198 0.00198			<0.00199 0.00199		
m,p-Xylenes		<0.00397 0.00397			<0.00398 0.00398		
o-Xylene		<0.00198 0.00198			<0.00199 0.00199		
Total Xylenes		<0.001980 0.001980			<0.001990 0.001990		
Total BTEX		<0.001980 0.001980			<0.001990 0.001990		
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 12:45	11.21.2020 13:25	11.21.2020 13:25	11.21.2020 13:25	11.21.2020 13:25	11.21.2020 13:25
	<i>Analyzed:</i>	11.21.2020 19:59	11.21.2020 18:36	11.21.2020 18:42	11.21.2020 18:47	11.21.2020 18:52	11.21.2020 19:08
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5750 50.3	5870 49.8	5080 50.4	5180 50.0	4850 50.0	2370 25.0
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 15:00			11.24.2020 15:00		
	<i>Analyzed:</i>	11.25.2020 03:49			11.25.2020 04:11		
	<i>Units/RL:</i>	mg/kg RL			mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0			<49.9 49.9		
Diesel Range Organics (DRO)		<50.0 50.0			<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0			<49.9 49.9		
Total TPH		<50.00 50.00			<49.90 49.90		

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678615

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
 Report Date: 11.25.2020 15:23
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 678615-043 Field Id: AH-13 (0-1') Depth: Matrix: SOIL Sampled: 11.19.2020 00:00	678615-044 AH-13 (1-1.5') SOIL 11.19.2020 00:00	678615-045 AH-13 (2-2.5') SOIL 11.19.2020 00:00	678615-046 AH-13 (3-3.5') SOIL 11.19.2020 00:00	678615-047 AH-13 (4-4.5') SOIL 11.19.2020 00:00	
BTEX by EPA 8021B	Extracted: 11.21.2020 16:00 Analyzed: 11.22.2020 18:40 Units/RL: mg/kg RL					
Benzene	<0.00200 0.00200					
Toluene	<0.00200 0.00200					
Ethylbenzene	<0.00200 0.00200					
m,p-Xylenes	<0.00400 0.00400					
o-Xylene	<0.00200 0.00200					
Total Xylenes	<0.002000 0.002000					
Total BTEX	<0.002000 0.002000					
Inorganic Anions by EPA 300/300.1	Extracted: 11.21.2020 13:25 Analyzed: 11.21.2020 19:13 Units/RL: mg/kg RL	11.21.2020 13:25 11.21.2020 18:21 mg/kg RL	11.21.2020 13:25 11.21.2020 19:18 mg/kg RL	11.21.2020 13:25 11.21.2020 19:24 mg/kg RL	11.21.2020 13:25 11.21.2020 19:29 mg/kg RL	
Chloride	3290 25.2	882 X 5.02	30.1 4.99	14.1 5.05	38.6 4.96	
TPH By SW8015 Mod	Extracted: 11.24.2020 15:00 Analyzed: 11.25.2020 04:34 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<50.0 50.0					
Diesel Range Organics (DRO)	<50.0 50.0					
Motor Oil Range Hydrocarbons (MRO)	<50.0 50.0					
Total TPH	<50.00 50.00					

BRL - Below Reporting Limit

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



Analytical Report 678615

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Heartthrob Riser SWD Release

212C-MD-02363

11.25.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **678615**

Heartthrob Riser SWD Release

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678615. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678615 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
AH-1 (0-1')	S	11.19.2020 00:00		678615-001
AH-1 (1'-1.5')	S	11.19.2020 00:00		678615-002
AH-2 (0-1')	S	11.19.2020 00:00		678615-003
AH-2 (1'-1.5')	S	11.19.2020 00:00		678615-004
AH-2 (2-2.5')	S	11.19.2020 00:00		678615-005
AH-3 (0-1')	S	11.19.2020 00:00		678615-006
AH-3 (1'-1.5')	S	11.19.2020 00:00		678615-007
AH-3 (2'-2.5')	S	11.19.2020 00:00		678615-008
AH-3 (3'-3.5')	S	11.19.2020 00:00		678615-009
AH-4 (0-1')	S	11.19.2020 00:00		678615-010
AH-4 (1'-1.5')	S	11.19.2020 00:00		678615-011
AH-4 (2-2.5')	S	11.19.2020 00:00		678615-012
AH-5 (0-1')	S	11.19.2020 00:00		678615-013
AH-5 (1'-1.5')	S	11.19.2020 00:00		678615-014
AH-5 (2'-2.5')	S	11.19.2020 00:00		678615-015
AH-6 (0-1')	S	11.19.2020 00:00		678615-016
AH-6 (1-1.5")	S	11.19.2020 00:00		678615-017
AH-6 (2-2.5')	S	11.19.2020 00:00		678615-018
AH-7 (0-1')	S	11.19.2020 00:00		678615-019
AH-7 (1'-1.5')	S	11.19.2020 00:00		678615-020
AH-7 (2-2.5')	S	11.19.2020 00:00		678615-021
AH-8 (0-1')	S	11.19.2020 00:00		678615-022
AH-8 (1'-1.5")	S	11.19.2020 00:00		678615-023
AH-8 (2'-2.5')	S	11.19.2020 00:00		678615-024
AH-8 (3-3.5')	S	11.19.2020 00:00		678615-025
AH-8 (04-4.5')	S	11.19.2020 00:00		678615-026
AH-9 (0-1')	S	11.19.2020 00:00		678615-027
AH-9 (1-1.5')	S	11.19.2020 00:00		678615-028
AH-9 (2'-2.5')	S	11.19.2020 00:00		678615-029
AH-9 (3-3.5')	S	11.19.2020 00:00		678615-030
AH-9 (4-4.5')	S	11.19.2020 00:00		678615-031
AH-10 (0-1')	S	11.19.2020 00:00		678615-032
AH-10 (1-1.5')	S	11.19.2020 00:00		678615-033
AH-10 (2-2.5')	S	11.19.2020 00:00		678615-034
AH-10 (3-3.5')	S	11.19.2020 00:00		678615-035
AH-10(4-4.5')	S	11.19.2020 00:00		678615-036
AH-11 (0-1')	S	11.19.2020 00:00		678615-037
AH-11 (1-1.5')	S	11.19.2020 00:00		678615-038
AH-11 (2-2.5')	S	11.19.2020 00:00		678615-039
AH-12 (0-1')	S	11.19.2020 00:00		678615-040
AH-12(1-1.5')	S	11.19.2020 00:00		678615-041
AH-12 (2-2.5')	S	11.19.2020 00:00		678615-042
AH-13 (0-1')	S	11.19.2020 00:00		678615-043



Sample Cross Reference 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

AH-13 (1-1.5')	S	11.19.2020 00:00	678615-044
AH-13 (2-2.5')	S	11.19.2020 00:00	678615-045
AH-13 (3-3.5')	S	11.19.2020 00:00	678615-046
AH-13 (4-4.5')	S	11.19.2020 00:00	678615-047

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Heartthrob Riser SWD Release**

Project ID: 212C-MD-02363
Work Order Number(s): 678615

Report Date: 11.25.2020
Date Received: 11.20.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142951 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 678615-003,678615-006,678615-010,678615-013,678615-032,678615-019,678615-022,678615-027,678615-016.

Batch: LBA-3143005 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7715738-1-BKS,678615-043.

Batch: LBA-3143041 Inorganic Anions by EPA 300/300.1

Lab Sample ID 678618-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678615-038, -039, -040, -041, -042, -043, -044, -045, -046, -047.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-1 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-001

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3890	25.3	mg/kg	11.21.2020 13:15		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 22:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 22:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 22:59	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 22:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-130	11.24.2020 22:59		
o-Terphenyl	84-15-1	112	%	70-130	11.24.2020 22:59		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-1 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-001

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.21.2020 22:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.21.2020 22:36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.21.2020 22:36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.21.2020 22:36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.21.2020 22:36	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.21.2020 22:36	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.21.2020 22:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	86	%	70-130	11.21.2020 22:36		
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.21.2020 22:36		

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-1 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-002

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2850	25.3	mg/kg	11.21.2020 13:22		5



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-2 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-003

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4380	49.6	mg/kg	11.21.2020 13:44		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 00:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 00:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 00:06	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 00:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	114	%	70-130	11.25.2020 00:06		
o-Terphenyl	84-15-1	106	%	70-130	11.25.2020 00:06		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-2 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-003

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 22:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 22:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 22:56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.21.2020 22:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 22:56	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 22:56	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 22:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	146	%	70-130	11.21.2020 22:56	**	
1,4-Difluorobenzene	540-36-3	90	%	70-130	11.21.2020 22:56		

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-2 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-004

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6210	49.5	mg/kg	11.21.2020 13:51		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-2 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-005

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7790	50.3	mg/kg	11.21.2020 13:59		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-3 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-006

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4110	24.8	mg/kg	11.21.2020 14:06		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.25.2020 00:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.25.2020 00:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.25.2020 00:28	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.25.2020 00:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	117	%	70-130	11.25.2020 00:28		
o-Terphenyl	84-15-1	111	%	70-130	11.25.2020 00:28		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-3 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-006

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 23:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 23:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 23:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 23:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 23:17	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 23:17	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 23:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	88	%	70-130	11.21.2020 23:17		
4-Bromofluorobenzene	460-00-4	136	%	70-130	11.21.2020 23:17	**	

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-3 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-007

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5830	49.9	mg/kg	11.21.2020 14:13		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-3 (2'-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-008

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1280	25.0	mg/kg	11.21.2020 14:21		5

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-3 (3'-3.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-009

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	354	5.02	mg/kg	11.21.2020 14:43		1



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-4 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-010

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3960	24.8	mg/kg	11.21.2020 14:50		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 00:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 00:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 00:51	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 00:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	109	%	70-130	11.25.2020 00:51		
o-Terphenyl	84-15-1	110	%	70-130	11.25.2020 00:51		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-4 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-010

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.21.2020 23:37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.21.2020 23:37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.21.2020 23:37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.21.2020 23:37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.21.2020 23:37	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.21.2020 23:37	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.21.2020 23:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	161	%	70-130	11.21.2020 23:37	**	
1,4-Difluorobenzene	540-36-3	85	%	70-130	11.21.2020 23:37		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-4 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-011

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5860	49.8	mg/kg	11.21.2020 15:12		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX****Heartthrob Riser SWD Release**Sample Id: **AH-4 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-012

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8020	50.0	mg/kg	11.21.2020 15:20		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-5 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-013

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3930	24.8	mg/kg	11.21.2020 15:27		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 01:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 01:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 01:13	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 01:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	11.25.2020 01:13	
o-Terphenyl	84-15-1	112	%	70-130	11.25.2020 01:13	



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-5 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-013

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.21.2020 23:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.21.2020 23:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.21.2020 23:57	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.21.2020 23:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.21.2020 23:57	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.21.2020 23:57	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.21.2020 23:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	70-130	11.21.2020 23:57		
4-Bromofluorobenzene	460-00-4	138	%	70-130	11.21.2020 23:57	**	

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-5 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-014

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6470	50.4	mg/kg	11.21.2020 15:34		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-5 (2'-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-015

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6160	50.3	mg/kg	11.21.2020 15:42		10



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-6 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-016

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3860	25.0	mg/kg	11.21.2020 15:49		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.25.2020 01:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.25.2020 01:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.25.2020 01:35	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.25.2020 01:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	111	%	70-130	11.25.2020 01:35		
o-Terphenyl	84-15-1	106	%	70-130	11.25.2020 01:35		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-6 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-016

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.22.2020 00:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.22.2020 00:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.22.2020 00:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.22.2020 00:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.22.2020 00:18	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.22.2020 00:18	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.22.2020 00:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	85	%	70-130	11.22.2020 00:18		
4-Bromofluorobenzene	460-00-4	138	%	70-130	11.22.2020 00:18	**	



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-6 (1-1.5")**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-017

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:15

% Moisture:

Seq Number: 3143036

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5620	50.0	mg/kg	11.21.2020 15:56		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-6 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-018

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6070	50.0	mg/kg	11.21.2020 16:40		10



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-7 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-019

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5730	49.5	mg/kg	11.21.2020 17:02		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.25.2020 01:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.25.2020 01:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.25.2020 01:58	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.25.2020 01:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	11.25.2020 01:58	
o-Terphenyl	84-15-1	116	%	70-130	11.25.2020 01:58	



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-7 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-019

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.22.2020 00:38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.22.2020 00:38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.22.2020 00:38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	11.22.2020 00:38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.22.2020 00:38	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.22.2020 00:38	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.22.2020 00:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	83	%	70-130	11.22.2020 00:38		
4-Bromofluorobenzene	460-00-4	174	%	70-130	11.22.2020 00:38	**	



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-7 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-020

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5400	50.5	mg/kg	11.21.2020 17:10		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-7 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-021

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5260	50.5	mg/kg	11.21.2020 17:17		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-8 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-022

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5760	50.5	mg/kg	11.21.2020 17:24		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 02:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 02:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 02:20	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 02:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	11.25.2020 02:20	
o-Terphenyl	84-15-1	109	%	70-130	11.25.2020 02:20	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-8 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-022

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.22.2020 00:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.22.2020 00:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.22.2020 00:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.22.2020 00:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.22.2020 00:59	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.22.2020 00:59	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.22.2020 00:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	138	%	70-130	11.22.2020 00:59	**	
1,4-Difluorobenzene	540-36-3	89	%	70-130	11.22.2020 00:59		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-8 (1'-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-023

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5400	49.9	mg/kg	11.21.2020 17:46		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-8 (2'-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-024

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6650	49.5	mg/kg	11.21.2020 17:54		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX****Heartthrob Riser SWD Release**Sample Id: **AH-8 (3-3.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-025

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	363	5.02	mg/kg	11.21.2020 18:01		1



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-8 (04-4.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-026

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	91.6	4.97	mg/kg	11.21.2020 18:08		1



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-9 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-027

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4500	25.2	mg/kg	11.21.2020 18:16		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 02:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 02:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 02:42	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 02:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	116	%	70-130	11.25.2020 02:42		
o-Terphenyl	84-15-1	113	%	70-130	11.25.2020 02:42		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-9 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-027

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.22.2020 01:19	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.22.2020 01:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.22.2020 01:19	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.22.2020 01:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.22.2020 01:19	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.22.2020 01:19	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.22.2020 01:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	138	%	70-130	11.22.2020 01:19	**	
1,4-Difluorobenzene	540-36-3	84	%	70-130	11.22.2020 01:19		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-9 (1-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-028

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6280	50.5	mg/kg	11.21.2020 18:23		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-9 (2'-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-029

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4930	49.8	mg/kg	11.21.2020 18:45		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX****Heartthrob Riser SWD Release**Sample Id: **AH-9 (3-3.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-030

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	309	5.00	mg/kg	11.21.2020 18:53		1

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-9 (4-4.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-031

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.9	5.02	mg/kg	11.21.2020 19:15		1



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-10 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-032

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5620	49.6	mg/kg	11.21.2020 19:22		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.25.2020 03:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.25.2020 03:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.25.2020 03:04	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.25.2020 03:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-130	11.25.2020 03:04		
o-Terphenyl	84-15-1	112	%	70-130	11.25.2020 03:04		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-10 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-032

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 07:00

% Moisture:

Seq Number: 3142951

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.22.2020 01:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.22.2020 01:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.22.2020 01:40	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.22.2020 01:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.22.2020 01:40	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.22.2020 01:40	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.22.2020 01:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	70-130	11.22.2020 01:40		
4-Bromofluorobenzene	460-00-4	140	%	70-130	11.22.2020 01:40	**	

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-10 (1-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-033

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1430	25.0	mg/kg	11.21.2020 19:29		5

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-10 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-034

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	121	5.04	mg/kg	11.21.2020 19:37		1



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-10 (3-3.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-035

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.0	4.98	mg/kg	11.21.2020 19:44		1

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-10(4-4.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-036

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.7	5.00	mg/kg	11.21.2020 19:51		1



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-11 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-037

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:45

% Moisture:

Seq Number: 3143038

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5750	50.3	mg/kg	11.21.2020 19:59		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 03:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 03:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 03:49	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 03:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	115	%	70-130	11.25.2020 03:49		
o-Terphenyl	84-15-1	111	%	70-130	11.25.2020 03:49		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-11 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-037

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:

Seq Number: 3143005

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.22.2020 17:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.22.2020 17:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.22.2020 17:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.22.2020 17:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.22.2020 17:49	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.22.2020 17:49	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.22.2020 17:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.22.2020 17:49		
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.22.2020 17:49		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-11 (1-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-038

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5870	49.8	mg/kg	11.21.2020 18:36		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-11 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-039

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5080	50.4	mg/kg	11.21.2020 18:42		10



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-12 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-040

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5180	50.0	mg/kg	11.21.2020 18:47		10

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.25.2020 04:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.25.2020 04:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.25.2020 04:11	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.25.2020 04:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	118	%	70-130	11.25.2020 04:11		
o-Terphenyl	84-15-1	116	%	70-130	11.25.2020 04:11		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-12 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-040

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:

Seq Number: 3143005

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.22.2020 18:14	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.22.2020 18:14	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.22.2020 18:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.22.2020 18:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.22.2020 18:14	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.22.2020 18:14	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.22.2020 18:14	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.22.2020 18:14		
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.22.2020 18:14		

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-12(1-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-041

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4850	50.0	mg/kg	11.21.2020 18:52		10

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-12 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-042

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2370	25.0	mg/kg	11.21.2020 19:08		5



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-13 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-043

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3290	25.2	mg/kg	11.21.2020 19:13		5

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 15:00

% Moisture:

Seq Number: 3143312

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.25.2020 04:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.25.2020 04:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.25.2020 04:34	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.25.2020 04:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	11.25.2020 04:34	
o-Terphenyl	84-15-1	114	%	70-130	11.25.2020 04:34	



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-13 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-043

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:

Seq Number: 3143005

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.22.2020 18:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.22.2020 18:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.22.2020 18:40	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.22.2020 18:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.22.2020 18:40	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.22.2020 18:40	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.22.2020 18:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	141	%	70-130	11.22.2020 18:40	**	
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.22.2020 18:40		



Certificate of Analytical Results 678615

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **AH-13 (1-1.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-044

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	882	5.02	mg/kg	11.21.2020 18:21	X	1

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-13 (2-2.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-045

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.1	4.99	mg/kg	11.21.2020 19:18		1

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-13 (3-3.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-046

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.1	5.05	mg/kg	11.21.2020 19:24		1

**Certificate of Analytical Results 678615****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id: **AH-13 (4-4.5')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678615-047

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 13:25

% Moisture:

Seq Number: 3143041

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.6	4.96	mg/kg	11.21.2020 19:29		1

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143036

Matrix: Solid

Prep Method: E300P

Date Prep: 11.21.2020

MB Sample Id: 7715728-1-BLK

LCS Sample Id: 7715728-1-BKS

LCSD Sample Id: 7715728-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	252	101	90-110	0	20	mg/kg	11.21.2020 12:23	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143038

Matrix: Solid

Prep Method: E300P

Date Prep: 11.21.2020

MB Sample Id: 7715729-1-BLK

LCS Sample Id: 7715729-1-BKS

LCSD Sample Id: 7715729-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	249	100	250	100	90-110	0	20	mg/kg	11.21.2020 16:26	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143041

Matrix: Solid

Prep Method: E300P

Date Prep: 11.21.2020

MB Sample Id: 7715730-1-BLK

LCS Sample Id: 7715730-1-BKS

LCSD Sample Id: 7715730-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	258	103	260	104	90-110	1	20	mg/kg	11.21.2020 18:10	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143036

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678612-007

MS Sample Id: 678612-007 S

MSD Sample Id: 678612-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.32	252	267	103	263	101	90-110	2	20	mg/kg	11.21.2020 12:45	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143036

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678615-008

MS Sample Id: 678615-008 S

MSD Sample Id: 678615-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1280	1250	2590	105	2570	103	90-110	1	20	mg/kg	11.21.2020 14:28	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143038

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678615-018

MS Sample Id: 678615-018 S

MSD Sample Id: 678615-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6070	2500	8410	94	8590	101	90-110	2	20	mg/kg	11.21.2020 16:48	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143038

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678615-028

MS Sample Id: 678615-028 S

MSD Sample Id: 678615-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6280	2530	8700	96	8720	96	90-110	0	20	mg/kg	11.21.2020 18:30	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143041

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678615-044

MS Sample Id: 678615-044 S

MSD Sample Id: 678615-044 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	882	251	1110	91	1100	87	90-110	1	20	mg/kg	11.21.2020 18:26	X

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143041

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678618-001

MS Sample Id: 678618-001 S

MSD Sample Id: 678618-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7.36	250	259	101	259	101	90-110	0	20	mg/kg	11.21.2020 19:40	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143312

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.24.2020

MB Sample Id: 7715940-1-BLK

LCS Sample Id: 7715940-1-BKS

LCSD Sample Id: 7715940-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1060	106	1070	107	70-130	1	20	mg/kg	11.24.2020 22:15	
Diesel Range Organics (DRO)	<50.0	1000	1140	114	1190	119	70-130	4	20	mg/kg	11.24.2020 22:15	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		125		130		70-130	%	11.24.2020 22:15
o-Terphenyl	107		125		124		70-130	%	11.24.2020 22:15

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143312

Matrix: Solid

Prep Method: SW8015P

Date Prep: 11.24.2020

MB Sample Id: 7715940-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.24.2020 21:53	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143312

Parent Sample Id: 678615-001

Matrix: Soil

MS Sample Id: 678615-001 S

Prep Method: SW8015P

Date Prep: 11.24.2020

MSD Sample Id: 678615-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	1060	106	1050	105	70-130	1	20	mg/kg	11.24.2020 23:22	
Diesel Range Organics (DRO)	<50.0	999	1110	111	1070	107	70-130	4	20	mg/kg	11.24.2020 23:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		114		70-130	%	11.24.2020 23:22
o-Terphenyl	112		108		70-130	%	11.24.2020 23:22

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142951

MB Sample Id: 7715716-1-BLK

Matrix: Solid

LCS Sample Id: 7715716-1-BKS

Prep Method: SW5035A

Date Prep: 11.21.2020

LCSD Sample Id: 7715716-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0762	76	0.0794	79	70-130	4	35	mg/kg	11.21.2020 20:15	
Toluene	<0.00200	0.100	0.0823	82	0.0828	83	70-130	1	35	mg/kg	11.21.2020 20:15	
Ethylbenzene	<0.00200	0.100	0.0893	89	0.0926	93	70-130	4	35	mg/kg	11.21.2020 20:15	
m,p-Xylenes	<0.00400	0.200	0.185	93	0.192	96	70-130	4	35	mg/kg	11.21.2020 20:15	
o-Xylene	<0.00200	0.100	0.0976	98	0.102	102	70-130	4	35	mg/kg	11.21.2020 20:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	85		99		96		70-130	%	11.21.2020 20:15
4-Bromofluorobenzene	130		127		127		70-130	%	11.21.2020 20:15

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143005

MB Sample Id: 7715738-1-BLK

Matrix: Solid

LCS Sample Id: 7715738-1-BKS

Prep Method: SW5035A

Date Prep: 11.21.2020

LCSD Sample Id: 7715738-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0929	93	0.0933	93	70-130	0	35	mg/kg	11.23.2020 10:31	
Toluene	<0.00200	0.100	0.0942	94	0.0956	96	70-130	1	35	mg/kg	11.23.2020 10:31	
Ethylbenzene	<0.00200	0.100	0.0988	99	0.0997	100	70-130	1	35	mg/kg	11.23.2020 10:31	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.194	97	70-130	3	35	mg/kg	11.23.2020 10:31	
o-Xylene	<0.00200	0.100	0.0968	97	0.0993	99	70-130	3	35	mg/kg	11.23.2020 10:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		91		99		70-130	%	11.23.2020 10:31
4-Bromofluorobenzene	92		135	**	118		70-130	%	11.23.2020 10:31

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: BTEX by EPA 8021B

Seq Number: 3142951

Parent Sample Id: 678615-001

Matrix: Soil

MS Sample Id: 678615-001 S

Prep Method: SW5035A

Date Prep: 11.21.2020

MSD Sample Id: 678615-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.112	112	70-130	3	35	mg/kg	11.21.2020 20:56	
Toluene	<0.00200	0.100	0.102	102	0.104	104	70-130	2	35	mg/kg	11.21.2020 20:56	
Ethylbenzene	<0.00200	0.100	0.0993	99	0.102	102	70-130	3	35	mg/kg	11.21.2020 20:56	
m,p-Xylenes	<0.00401	0.200	0.207	104	0.213	107	70-130	3	35	mg/kg	11.21.2020 20:56	
o-Xylene	<0.00200	0.100	0.100	100	0.103	103	70-130	3	35	mg/kg	11.21.2020 20:56	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		91		70-130	%	11.21.2020 20:56
4-Bromofluorobenzene	128		128		70-130	%	11.21.2020 20:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143005

Parent Sample Id: 678617-002

Matrix: Soil

MS Sample Id: 678617-002 S

Prep Method: SW5035A

Date Prep: 11.21.2020

MSD Sample Id: 678617-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0714	71	0.114	114	70-130	46	35	mg/kg	11.22.2020 13:39	F
Toluene	<0.00201	0.100	0.0832	83	0.121	121	70-130	37	35	mg/kg	11.22.2020 13:39	F
Ethylbenzene	<0.00201	0.100	0.0806	81	0.112	112	70-130	33	35	mg/kg	11.22.2020 13:39	
m,p-Xylenes	<0.00402	0.201	0.163	81	0.222	111	70-130	31	35	mg/kg	11.22.2020 13:39	
o-Xylene	<0.00201	0.100	0.0858	86	0.109	109	70-130	24	35	mg/kg	11.22.2020 13:39	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		104		70-130	%	11.22.2020 13:39
4-Bromofluorobenzene	105		129		70-130	%	11.22.2020 13:39

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Custody Record



Tetra Tech, Inc.

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Midland, Texas 79701
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678615

Page 1 of 5

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Heartthrob Riser SWD Release			
Project Location: Lea County, New Mexico		Project #: 212C-MD-02363	
Invoice to: Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
									YEAR 2020				
	AH-1 (0-1)	11/19/2020		X			X					1	N
	AH-1 (1-1.5)	11/19/2020		X			X					1	N
	AH-2 (0-1)	11/19/2020		X			X					1	N
	AH-2 (1-1.5)	11/19/2020		X			X					1	N
	AH-2 (2-2.5)	11/19/2020		X			X					1	N
	AH-3 (0-1)	11/19/2020		X			X					1	N
	AH-3 (1-1.5)	11/19/2020		X			X					1	N
	AH-3 (2-2.5)	11/19/2020		X			X					1	N
	AH-3 (3-3.5)	11/19/2020		X			X					1	N
	AH-4 (0-1)	11/19/2020		X			X					1	N

LAB USE ONLY	REMARKS:
☐ STANDARD	
☒ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

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Client Name: EOG Site Manager: Mike Carmona

Project Name: Heartthrob Riser SWD Release

Project Location: (county, state) Lea County, New Mexico Project #: 212C-MD-02363

Invoice to: Todd Wells

Receiving Laboratory: Xenco Sampler Signature: Devin Dominguez

Comments:

11/19/2020

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		DATE	TIME	MATRIX		METHOD				# CONTAINERS	FILTERED (Y/N)	
		WATER	SOIL			HCL	HNO ₃	ICE	None					
	AH-4 (1'-1.5')			11/19/2020			X			X			1	N
	AH-4 (2-2.5')			11/19/2020			X			X			1	N
	AH-5 (0-1')			11/19/2020			X			X			1	N
	AH-5 (1'-1.5')			11/19/2020			X			X			1	N
	AH-5 (2-2.5')			11/19/2020			X			X			1	N
	AH-6 (0-1')			11/19/2020			X			X			1	N
	AH-6 (1'-1.5')			11/19/2020			X			X			1	N
	AH-6 (2-2.5')			11/19/2020			X			X			1	N
	AH-7 (0-1')			11/19/2020			X			X			1	N
	AH-7 (1'-1.5')			11/19/2020			X			X			1	N

Relinquished by: [Signature] Date: 11/30 Time: 11:30 Received by: [Signature] Date: 11/30 Time: 2:00

Relinquished by: [Signature] Date: 11/30 Time: 11:30 Received by: [Signature] Date: 11/30 Time: 2:00

Relinquished by: [Signature] Date: 11/30 Time: 11:30 Received by: [Signature] Date: 11/30 Time: 2:00

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	
TPH 8015R	
Hold	

LAB USE ONLY

Sample Temperature

REMARKS:
☐ STANDARD
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

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Client Name: EOG		Site Manager: Mike Carmona					
Project Name: Heartthrob Riser SWD Release							
Project Location: Lea County, New Mexico		Project #: 212C-MD-02363					
Invoice to: Todd Wells							
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez					
Comments:							
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		YEAR: 2020	DATE				
	AH-7 (2-2.5')	11/19/2020		X		1	N
	AH-8 (0-1')	11/19/2020		X		1	N
	AH-8 (1'-1.5')	11/19/2020		X		1	N
	AH-8 (2-2.5')	11/19/2020		X		1	N
	AH-8 (3-3.5')	11/19/2020		X		1	N
	AH-8 (4-4.5')	11/19/2020		X		1	N
	AH-9 (0-1')	11/19/2020		X		1	N
	AH-9 (1'-1.5')	11/19/2020		X		1	N
	AH-9 (2-2.5')	11/19/2020		X		1	N
	AH-9 (3-3.5')	11/19/2020		X		1	N
Relinquished by:	Date: 11/20	Time: 11:00	Received by: [Signature]	Date: 11/20	Time: 2:20		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		
Relinquished by:	Date:	Time:	Received by:	Date:	Time:		

LAB USE ONLY	REMARKS:	Sample Temperature	
		20/2.5	
☐ STANDARD	☒ RUSH: Same Day 24 hr 48 hr 72 hr		
☐ Rush Charges Authorized	☐ 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	
TPH 8015R	
Hold	

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Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Heathrob Riser SWD Release			
Project Location: Lea County, New Mexico		Project #: 212C-MD-02363	
Invoice to: Todd Wells		Sampler Signature: Devin Dominguez	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	AH-9 (4-4.5')	11/19/2020		X		X		1	N		
	AH-10 (0-1')	11/19/2020		X		X		1	N		
	AH-10 (1-1.5')	11/19/2020		X		X		1	N		
	AH-10 (2-2.5')	11/19/2020		X		X		1	N		
	AH-10 (3-3.5')	11/19/2020		X		X		1	N		
	AH-10 (4-4.5')	11/19/2020		X		X		1	N		
	AH-11 (0-1')	11/19/2020		X		X		1	N		
	AH-11 (1-1.5')	11/19/2020		X		X		1	N		
	AH-11 (2-2.5')	11/19/2020		X		X		1	N		
	AH-12 (0-1')	11/19/2020		X		X		1	N		

LAB USE ONLY	REMARKS:
☐ STANDARD	
☒ RUSH: Same Day 24 hr 48 hr 72 hr	
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

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678615

Page 5 of 5

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Heartthrob Riser SWD Release			
Project Location: Lea County, New Mexico		Project #: 212C-MD-02363	
Invoice to: Todd Wells			
Receiving Laboratory: Xenco		Sampler Signature: Devin Dominguez	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
												YEAR: 2020
	AH-12 (1-1.5')	11/19/2020		X				X			1	N
	AH-12 (2-2.5')	11/19/2020		X				X			1	N
	AH-13 (0-1')	11/19/2020		X				X			1	N
	AH-13 (1-1.5')	11/19/2020		X				X			1	N
	AH-13 (2-2.5')	11/19/2020		X				X			1	N
	AH-13 (3-3.5')	11/19/2020		X				X			1	N
	AH-13 (4-4.5')	11/19/2020		X				X			1	N

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

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

LAB USE ONLY

REMARKS:

☐ STANDARD

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

2.0/25

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 11.20.2020 02.19.00 PM

Work Order #: 678615

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	No
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 11.20.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.20.2020

Certificate of Analysis Summary 678617



Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:25
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678617-001	678617-002	678617-003	678617-004	678617-005	678617-006
	<i>Field Id:</i>	H-1 (0-1')	H-2 (0-1')	H-3 (0-1')	H-4 (0-1')	H-5 (0-1')	H-6 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.21.2020 16:00	11.21.2020 16:00	11.21.2020 16:00	11.21.2020 16:00	11.21.2020 16:00	11.23.2020 12:00
	<i>Analyzed:</i>	11.22.2020 19:06	11.22.2020 15:46	11.22.2020 16:12	11.22.2020 16:38	11.22.2020 17:03	11.23.2020 17:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00201 0.00201	0.00423 0.00202	0.00376 0.00202	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	0.00392 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	0.00690 0.00403	0.00441 0.00403	<0.00399 0.00399	<0.00399 0.00399
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	0.00243 0.00202	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.002020 0.002020	<0.002010 0.002010	0.009330 0.002020	0.004410 0.002020	<0.002000 0.002000	<0.002000 0.002000
Total BTEX		<0.002020 0.002020	<0.002010 0.002010	0.01748 0.002020	0.008170 0.002020	<0.002000 0.002000	<0.002000 0.002000
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40
	<i>Analyzed:</i>	11.21.2020 13:40	11.21.2020 13:45	11.21.2020 14:02	11.21.2020 14:07	11.21.2020 14:23	11.21.2020 14:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		23.3 5.05	97.5 4.99	53.0 4.96	16.0 4.99	9.63 5.03	14.0 4.98
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00
	<i>Analyzed:</i>	11.24.2020 13:00	11.24.2020 14:08	11.24.2020 14:30	11.24.2020 14:52	11.24.2020 15:15	11.24.2020 15:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<50.00 50.00	<50.00 50.00	<50.00 50.00	<50.00 50.00	<49.80 49.80	<50.00 50.00

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678617



Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
Contact: Mike Carmona
Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
Report Date: 11.25.2020 15:25
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	678617-007	678617-008	678617-009	678617-010	678617-011	678617-012
	<i>Field Id:</i>	H-7 (0-1')	H-8 (0-1')	H-9 (0-1')	H-10 (0-1')	H-11 (0-1')	H-12 (0-1')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	11.23.2020 12:00	11.23.2020 12:00	11.23.2020 12:00	11.23.2020 12:00	11.23.2020 12:00	11.23.2020 12:00
	<i>Analyzed:</i>	11.23.2020 17:43	11.23.2020 18:09	11.23.2020 18:35	11.23.2020 19:01	11.23.2020 19:27	11.23.2020 19:53
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00397 0.00397	<0.00397 0.00397	<0.00400 0.00400	<0.00398 0.00398
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199
Total Xylenes		<0.002010 0.002010	<0.002000 0.002000	<0.001980 0.001980	<0.001980 0.001980	<0.002000 0.002000	<0.001990 0.001990
Total BTEX		<0.002010 0.002010	<0.002000 0.002000	<0.001980 0.001980	<0.001980 0.001980	<0.002000 0.002000	<0.001990 0.001990
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 11:40	11.21.2020 12:00
	<i>Analyzed:</i>	11.21.2020 14:33	11.21.2020 14:39	11.21.2020 14:44	11.21.2020 14:49	11.21.2020 14:54	11.21.2020 15:26
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		17.7 4.98	9.31 4.98	10.9 4.95	27.0 5.04	30.0 4.97	38.8 5.04
TPH By SW8015 Mod	<i>Extracted:</i>	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00
	<i>Analyzed:</i>	11.24.2020 16:00	11.24.2020 16:23	11.24.2020 16:45	11.24.2020 17:07	11.24.2020 17:52	11.24.2020 18:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.00 50.00	<49.80 49.80	<50.00 50.00	<50.00 50.00	<50.00 50.00	<49.90 49.90

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 678617

Tetra Tech- Midland, Midland, TX

Project Name: Heartthrob Riser SWD Release

Project Id: 212C-MD-02363
 Contact: Mike Carmona
 Project Location: Lea County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:19
 Report Date: 11.25.2020 15:25
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	678617-013	678617-014	678617-015			
	Field Id:	H-13 (0-1')	H-14 (0-1')	H-15 (0-1')			
	Depth:						
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	11.19.2020 00:00	11.19.2020 00:00	11.19.2020 00:00			
BTEX by EPA 8021B	Extracted:	11.23.2020 12:00	11.23.2020 12:00	11.23.2020 12:00			
	Analyzed:	11.23.2020 20:18	11.23.2020 20:44	11.23.2020 21:10			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
m,p-Xylenes		<0.00398 0.00398	<0.00396 0.00396	<0.00400 0.00400			
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200			
Total Xylenes		<0.001990 0.001990	<0.001980 0.001980	<0.002000 0.002000			
Total BTEX		<0.001990 0.001990	<0.001980 0.001980	<0.002000 0.002000			
Inorganic Anions by EPA 300/300.1	Extracted:	11.21.2020 12:00	11.21.2020 12:00	11.21.2020 12:00			
	Analyzed:	11.21.2020 15:42	11.21.2020 15:47	11.21.2020 15:53			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		76.1 4.99	21.7 4.98	111 5.02			
TPH By SW8015 Mod	Extracted:	11.24.2020 10:00	11.24.2020 10:00	11.24.2020 10:00			
	Analyzed:	11.24.2020 18:36	11.24.2020 18:58	11.24.2020 19:20			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0			
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.0 50.0			
Total TPH		<49.90 49.90	<49.90 49.90	<50.00 50.00			

BRL - Below Reporting Limit

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



Analytical Report 678617

for

Tetra Tech- Midland

Project Manager: Mike Carmona

Heartthrob Riser SWD Release

212C-MD-02363

11.25.2020

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: **Mike Carmona**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **678617**

Heartthrob Riser SWD Release

Project Address: Lea County, New Mexico

Mike Carmona:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678617. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678617 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 678617****Tetra Tech- Midland, Midland, TX**

Heartthrob Riser SWD Release

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
H-1 (0-1')	S	11.19.2020 00:00		678617-001
H-2 (0-1')	S	11.19.2020 00:00		678617-002
H-3 (0-1')	S	11.19.2020 00:00		678617-003
H-4 (0-1')	S	11.19.2020 00:00		678617-004
H-5 (0-1')	S	11.19.2020 00:00		678617-005
H-6 (0-1')	S	11.19.2020 00:00		678617-006
H-7 (0-1')	S	11.19.2020 00:00		678617-007
H-8 (0-1')	S	11.19.2020 00:00		678617-008
H-9 (0-1')	S	11.19.2020 00:00		678617-009
H-10 (0-1')	S	11.19.2020 00:00		678617-010
H-11 (0-1')	S	11.19.2020 00:00		678617-011
H-12 (0-1')	S	11.19.2020 00:00		678617-012
H-13 (0-1')	S	11.19.2020 00:00		678617-013
H-14 (0-1')	S	11.19.2020 00:00		678617-014
H-15 (0-1')	S	11.19.2020 00:00		678617-015

**CASE NARRATIVE****Client Name: Tetra Tech- Midland****Project Name: Heartthrob Riser SWD Release**Project ID: 212C-MD-02363
Work Order Number(s): 678617Report Date: 11.25.2020
Date Received: 11.20.2020**Sample receipt non conformances and comments:****Sample receipt non conformances and comments per sample:**

None

Analytical non conformances and comments:

Batch: LBA-3143005 BTEX by EPA 8021B

Lab Sample ID 678617-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Toluene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 678617-001, -002, -003, -004, -005

Outlier/s are due to possible matrix interference.

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 678617-005, 678617-003.

Batch: LBA-3143127 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.

Samples affected are: 678617-006 SD.

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.

Samples in the analytical batch are: 678617-006, -007, -008, -009, -010, -011, -012, -013, -014, -015

Lab Sample ID 678617-006 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678617-006, -007, -008, -009, -010, -011, -012, -013, -014, -015.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-1 (0-1')**
Lab Sample Id: 678617-001

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	23.3	5.05	mg/kg	11.21.2020 13:40		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 13:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 13:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 13:00	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 13:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	11.24.2020 13:00	
o-Terphenyl	84-15-1	105	%	70-130	11.24.2020 13:00	



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-1 (0-1')**
 Lab Sample Id: 678617-001

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.22.2020 19:06	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	11.22.2020 19:06	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.22.2020 19:06	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	11.22.2020 19:06	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.22.2020 19:06	U	1
Total Xylenes	1330-20-7	<0.002020	0.002020	mg/kg	11.22.2020 19:06	U	1
Total BTEX		<0.002020	0.002020	mg/kg	11.22.2020 19:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	11.22.2020 19:06		
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.22.2020 19:06		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-2 (0-1')**
Lab Sample Id: 678617-002

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	97.5	4.99	mg/kg	11.21.2020 13:45		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 14:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 14:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 14:08	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 14:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-130	11.24.2020 14:08		
o-Terphenyl	84-15-1	100	%	70-130	11.24.2020 14:08		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-2 (0-1')**
 Lab Sample Id: 678617-002

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.22.2020 15:46	UF	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.22.2020 15:46	UF	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.22.2020 15:46	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.22.2020 15:46	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.22.2020 15:46	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.22.2020 15:46	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.22.2020 15:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	11.22.2020 15:46	**	
1,4-Difluorobenzene	540-36-3	85	%	70-130	11.22.2020 15:46		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-3 (0-1')**
Lab Sample Id: 678617-003

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.0	4.96	mg/kg	11.21.2020 14:02		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 14:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 14:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 14:30	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 14:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-130	11.24.2020 14:30		
o-Terphenyl	84-15-1	99	%	70-130	11.24.2020 14:30		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-3 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-003

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:

Seq Number: 3143005

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.22.2020 16:12	U	1
Toluene	108-88-3	0.00423	0.00202	mg/kg	11.22.2020 16:12		1
Ethylbenzene	100-41-4	0.00392	0.00202	mg/kg	11.22.2020 16:12		1
m,p-Xylenes	179601-23-1	0.00690	0.00403	mg/kg	11.22.2020 16:12		1
o-Xylene	95-47-6	0.00243	0.00202	mg/kg	11.22.2020 16:12		1
Total Xylenes	1330-20-7	0.009330	0.002020	mg/kg	11.22.2020 16:12		1
Total BTEX		0.01748	0.002020	mg/kg	11.22.2020 16:12		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.22.2020 16:12		
4-Bromofluorobenzene	460-00-4	68	%	70-130	11.22.2020 16:12	**	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-4 (0-1')**
Lab Sample Id: 678617-004

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.0	4.99	mg/kg	11.21.2020 14:07		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 14:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 14:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 14:52	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 14:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-130	11.24.2020 14:52		
o-Terphenyl	84-15-1	95	%	70-130	11.24.2020 14:52		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-4 (0-1')**
 Lab Sample Id: 678617-004

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143005

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	11.22.2020 16:38	U	1
Toluene	108-88-3	0.00376	0.00202	mg/kg	11.22.2020 16:38		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	11.22.2020 16:38	U	1
m,p-Xylenes	179601-23-1	0.00441	0.00403	mg/kg	11.22.2020 16:38		1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	11.22.2020 16:38	U	1
Total Xylenes	1330-20-7	0.004410	0.002020	mg/kg	11.22.2020 16:38		1
Total BTEX		0.008170	0.002020	mg/kg	11.22.2020 16:38		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	87	%	70-130	11.22.2020 16:38		
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.22.2020 16:38		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-5 (0-1')**
Lab Sample Id: 678617-005

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.63	5.03	mg/kg	11.21.2020 14:23		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.24.2020 15:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.24.2020 15:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.24.2020 15:15	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.24.2020 15:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-130	11.24.2020 15:15		
o-Terphenyl	84-15-1	95	%	70-130	11.24.2020 15:15		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-5 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-005

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.21.2020 16:00

% Moisture:

Seq Number: 3143005

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.22.2020 17:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.22.2020 17:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.22.2020 17:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.22.2020 17:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.22.2020 17:03	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.22.2020 17:03	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.22.2020 17:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.22.2020 17:03		
4-Bromofluorobenzene	460-00-4	0	%	70-130	11.22.2020 17:03	**	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-6 (0-1')**
Lab Sample Id: 678617-006

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.0	4.98	mg/kg	11.21.2020 14:28		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 15:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 15:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 15:37	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 15:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	113	%	70-130	11.24.2020 15:37		
o-Terphenyl	84-15-1	99	%	70-130	11.24.2020 15:37		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-6 (0-1')**
 Lab Sample Id: 678617-006

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143127

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.23.2020 17:18	UXF	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.23.2020 17:18	UXF	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.23.2020 17:18	UXF	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.23.2020 17:18	UXF	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.23.2020 17:18	UXF	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.23.2020 17:18	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.23.2020 17:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	70-130	11.23.2020 17:18		
4-Bromofluorobenzene	460-00-4	138	%	70-130	11.23.2020 17:18	**	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-7 (0-1')**
 Lab Sample Id: 678617-007

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
 Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.7	4.98	mg/kg	11.21.2020 14:33		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 16:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 16:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 16:00	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 16:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	107	%	70-130	11.24.2020 16:00		
o-Terphenyl	84-15-1	101	%	70-130	11.24.2020 16:00		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-7 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-007

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.23.2020 17:43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.23.2020 17:43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.23.2020 17:43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.23.2020 17:43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.23.2020 17:43	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.23.2020 17:43	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.23.2020 17:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.23.2020 17:43		
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.23.2020 17:43		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-8 (0-1')**
Lab Sample Id: 678617-008

Matrix: Soil
Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.31	4.98	mg/kg	11.21.2020 14:39		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.24.2020 16:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.24.2020 16:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.24.2020 16:23	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.24.2020 16:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	112	%	70-130	11.24.2020 16:23		
o-Terphenyl	84-15-1	104	%	70-130	11.24.2020 16:23		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-8 (0-1')**
 Lab Sample Id: 678617-008

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143127

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.23.2020 18:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.23.2020 18:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.23.2020 18:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.23.2020 18:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.23.2020 18:09	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.23.2020 18:09	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.23.2020 18:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.23.2020 18:09		
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.23.2020 18:09		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-9 (0-1')**
 Lab Sample Id: 678617-009

Matrix: Soil
 Date Collected: 11.19.2020 00:00

Date Received: 11.20.2020 14:19

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:
 Basis: Wet Weight

Seq Number: 3143030

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.9	4.95	mg/kg	11.21.2020 14:44		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3143311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 16:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 16:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 16:45	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 16:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	105	%	70-130	11.24.2020 16:45		
o-Terphenyl	84-15-1	95	%	70-130	11.24.2020 16:45		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-9 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-009

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.23.2020 18:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.23.2020 18:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.23.2020 18:35	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.23.2020 18:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.23.2020 18:35	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.23.2020 18:35	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.23.2020 18:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.23.2020 18:35		
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.23.2020 18:35		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-10 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-010

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:

Seq Number: 3143030

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.0	5.04	mg/kg	11.21.2020 14:49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 17:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 17:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 17:07	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 17:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	106	%	70-130	11.24.2020 17:07		
o-Terphenyl	84-15-1	95	%	70-130	11.24.2020 17:07		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-10 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-010

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.23.2020 19:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.23.2020 19:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.23.2020 19:01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.23.2020 19:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.23.2020 19:01	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.23.2020 19:01	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.23.2020 19:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	94	%	70-130	11.23.2020 19:01		
4-Bromofluorobenzene	460-00-4	82	%	70-130	11.23.2020 19:01		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-11 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-011

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 11:40

% Moisture:

Seq Number: 3143030

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.0	4.97	mg/kg	11.21.2020 14:54		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 17:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 17:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 17:52	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 17:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	104	%	70-130	11.24.2020 17:52		
o-Terphenyl	84-15-1	97	%	70-130	11.24.2020 17:52		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-11 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-011

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.23.2020 19:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.23.2020 19:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.23.2020 19:27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.23.2020 19:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.23.2020 19:27	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.23.2020 19:27	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.23.2020 19:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	129	%	70-130	11.23.2020 19:27		
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.23.2020 19:27		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-12 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-012

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:00

% Moisture:

Seq Number: 3143033

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.8	5.04	mg/kg	11.21.2020 15:26		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.24.2020 18:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.24.2020 18:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.24.2020 18:14	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.24.2020 18:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	11.24.2020 18:14	
o-Terphenyl	84-15-1	116	%	70-130	11.24.2020 18:14	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-12 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-012

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.23.2020 19:53	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.23.2020 19:53	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.23.2020 19:53	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.23.2020 19:53	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.23.2020 19:53	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.23.2020 19:53	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.23.2020 19:53	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.23.2020 19:53		
4-Bromofluorobenzene	460-00-4	139	%	70-130	11.23.2020 19:53	**	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-13 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-013

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:00

% Moisture:

Seq Number: 3143033

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.1	4.99	mg/kg	11.21.2020 15:42		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.24.2020 18:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.24.2020 18:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.24.2020 18:36	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.24.2020 18:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	108	%	70-130	11.24.2020 18:36		
o-Terphenyl	84-15-1	101	%	70-130	11.24.2020 18:36		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-13 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-013

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.23.2020 20:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.23.2020 20:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.23.2020 20:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.23.2020 20:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.23.2020 20:18	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.23.2020 20:18	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.23.2020 20:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.23.2020 20:18		
4-Bromofluorobenzene	460-00-4	146	%	70-130	11.23.2020 20:18	**	



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-14 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-014

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:00

% Moisture:

Seq Number: 3143033

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.7	4.98	mg/kg	11.21.2020 15:47		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.24.2020 18:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.24.2020 18:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.24.2020 18:58	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.24.2020 18:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-130	11.24.2020 18:58		
o-Terphenyl	84-15-1	90	%	70-130	11.24.2020 18:58		



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Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-14 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-014

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.23.2020 20:44	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.23.2020 20:44	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.23.2020 20:44	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.23.2020 20:44	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.23.2020 20:44	U	1
Total Xylenes	1330-20-7	<0.001980	0.001980	mg/kg	11.23.2020 20:44	U	1
Total BTEX		<0.001980	0.001980	mg/kg	11.23.2020 20:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	11.23.2020 20:44	**	
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.23.2020 20:44		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-15 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-015

Date Collected: 11.19.2020 00:00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Tech: CHE

Analyst: CHE

Date Prep: 11.21.2020 12:00

% Moisture:

Seq Number: 3143033

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	5.02	mg/kg	11.21.2020 15:53		1

Analytical Method: TPH By SW8015 Mod

Prep Method: SW8015P

Tech: DVM

Analyst: ARM

Date Prep: 11.24.2020 10:00

% Moisture:

Seq Number: 3143311

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.24.2020 19:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.24.2020 19:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.24.2020 19:20	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.24.2020 19:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	100	%	70-130	11.24.2020 19:20		
o-Terphenyl	84-15-1	92	%	70-130	11.24.2020 19:20		



Certificate of Analytical Results 678617

Tetra Tech- Midland, Midland, TX

Heartthrob Riser SWD Release

Sample Id: **H-15 (0-1')**

Matrix: Soil

Date Received: 11.20.2020 14:19

Lab Sample Id: 678617-015

Date Collected: 11.19.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

Analyst: KTL

Date Prep: 11.23.2020 12:00

% Moisture:

Seq Number: 3143127

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.23.2020 21:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.23.2020 21:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.23.2020 21:10	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	11.23.2020 21:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.23.2020 21:10	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.23.2020 21:10	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.23.2020 21:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	152	%	70-130	11.23.2020 21:10	**	
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.23.2020 21:10		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143030

Matrix: Solid

Prep Method: E300P

Date Prep: 11.21.2020

MB Sample Id: 7715726-1-BLK

LCS Sample Id: 7715726-1-BKS

LCSD Sample Id: 7715726-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	254	102	254	102	90-110	0	20	mg/kg	11.21.2020 12:21	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143033

Matrix: Solid

Prep Method: E300P

Date Prep: 11.21.2020

MB Sample Id: 7715727-1-BLK

LCS Sample Id: 7715727-1-BKS

LCSD Sample Id: 7715727-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	255	102	90-110	0	20	mg/kg	11.21.2020 15:16	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143030

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678617-002

MS Sample Id: 678617-002 S

MSD Sample Id: 678617-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	97.5	250	343	98	343	98	90-110	0	20	mg/kg	11.21.2020 13:50	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143030

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678620-041

MS Sample Id: 678620-041 S

MSD Sample Id: 678620-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.91	250	260	100	259	100	90-110	0	20	mg/kg	11.21.2020 12:36	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143033

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678613-007

MS Sample Id: 678613-007 S

MSD Sample Id: 678613-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	13.8	250	268	102	268	102	90-110	0	20	mg/kg	11.21.2020 16:45	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3143033

Matrix: Soil

Prep Method: E300P

Date Prep: 11.21.2020

Parent Sample Id: 678617-012

MS Sample Id: 678617-012 S

MSD Sample Id: 678617-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.8	252	292	100	292	100	90-110	0	20	mg/kg	11.21.2020 15:32	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143311

MB Sample Id: 7715938-1-BLK

Matrix: Solid

LCS Sample Id: 7715938-1-BKS

Prep Method: SW8015P

Date Prep: 11.24.2020

LCSD Sample Id: 7715938-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1090	109	70-130	4	20	mg/kg	11.24.2020 12:16	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	1090	109	70-130	4	20	mg/kg	11.24.2020 12:16	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		129		120		70-130	%	11.24.2020 12:16
o-Terphenyl	105		118		104		70-130	%	11.24.2020 12:16

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143311

Matrix: Solid

MB Sample Id: 7715938-1-BLK

Prep Method: SW8015P

Date Prep: 11.24.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.24.2020 11:53	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3143311

Matrix: Soil

Parent Sample Id: 678617-001

MS Sample Id: 678617-001 S

Prep Method: SW8015P

Date Prep: 11.24.2020

MSD Sample Id: 678617-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	990	99	949	95	70-130	4	20	mg/kg	11.24.2020 13:23	
Diesel Range Organics (DRO)	<49.9	998	962	96	1030	103	70-130	7	20	mg/kg	11.24.2020 13:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		110		70-130	%	11.24.2020 13:23
o-Terphenyl	91		99		70-130	%	11.24.2020 13:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143005

Matrix: Solid

MB Sample Id: 7715738-1-BLK

LCS Sample Id: 7715738-1-BKS

Prep Method: SW5035A

Date Prep: 11.21.2020

LCSD Sample Id: 7715738-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0929	93	0.0933	93	70-130	0	35	mg/kg	11.23.2020 10:31	
Toluene	<0.00200	0.100	0.0942	94	0.0956	96	70-130	1	35	mg/kg	11.23.2020 10:31	
Ethylbenzene	<0.00200	0.100	0.0988	99	0.0997	100	70-130	1	35	mg/kg	11.23.2020 10:31	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.194	97	70-130	3	35	mg/kg	11.23.2020 10:31	
o-Xylene	<0.00200	0.100	0.0968	97	0.0993	99	70-130	3	35	mg/kg	11.23.2020 10:31	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		91		99		70-130	%	11.23.2020 10:31
4-Bromofluorobenzene	92		135	**	118		70-130	%	11.23.2020 10:31

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Tetra Tech- Midland

Heartthrob Riser SWD Release

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143127

Matrix: Solid

Prep Method: SW5035A

Date Prep: 11.23.2020

MB Sample Id: 7715851-1-BLK

LCS Sample Id: 7715851-1-BKS

LCSD Sample Id: 7715851-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0974	97	0.0951	95	70-130	2	35	mg/kg	11.23.2020 14:42	
Toluene	<0.00200	0.100	0.0988	99	0.0875	88	70-130	12	35	mg/kg	11.23.2020 14:42	
Ethylbenzene	<0.00200	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	11.23.2020 14:42	
m,p-Xylenes	<0.00400	0.200	0.209	105	0.200	100	70-130	4	35	mg/kg	11.23.2020 14:42	
o-Xylene	<0.00200	0.100	0.105	105	0.100	100	70-130	5	35	mg/kg	11.23.2020 14:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		104		100		70-130	%	11.23.2020 14:42
4-Bromofluorobenzene	86		117		119		70-130	%	11.23.2020 14:42

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143005

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.21.2020

Parent Sample Id: 678617-002

MS Sample Id: 678617-002 S

MSD Sample Id: 678617-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.0714	71	0.114	114	70-130	46	35	mg/kg	11.22.2020 13:39	F
Toluene	<0.00201	0.100	0.0832	83	0.121	121	70-130	37	35	mg/kg	11.22.2020 13:39	F
Ethylbenzene	<0.00201	0.100	0.0806	81	0.112	112	70-130	33	35	mg/kg	11.22.2020 13:39	
m,p-Xylenes	<0.00402	0.201	0.163	81	0.222	111	70-130	31	35	mg/kg	11.22.2020 13:39	
o-Xylene	<0.00201	0.100	0.0858	86	0.109	109	70-130	24	35	mg/kg	11.22.2020 13:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		104		70-130	%	11.22.2020 13:39
4-Bromofluorobenzene	105		129		70-130	%	11.22.2020 13:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3143127

Matrix: Soil

Prep Method: SW5035A

Date Prep: 11.23.2020

Parent Sample Id: 678617-006

MS Sample Id: 678617-006 S

MSD Sample Id: 678617-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0990	0.0652	66	0.0381	38	70-130	52	35	mg/kg	11.23.2020 15:34	XF
Toluene	<0.00198	0.0990	0.0496	50	0.0223	22	70-130	76	35	mg/kg	11.23.2020 15:34	XF
Ethylbenzene	<0.00198	0.0990	0.0413	42	0.0212	21	70-130	64	35	mg/kg	11.23.2020 15:34	XF
m,p-Xylenes	<0.00396	0.198	0.0787	40	0.0366	18	70-130	73	35	mg/kg	11.23.2020 15:34	XF
o-Xylene	<0.00198	0.0990	0.0434	44	0.0229	23	70-130	62	35	mg/kg	11.23.2020 15:34	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		105		70-130	%	11.23.2020 15:34
4-Bromofluorobenzene	122		65	**	70-130	%	11.23.2020 15:34

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

679617

Page 1 of 2

Client Name: EOG		Site Manager: Mike Carmona	
Project Name: Heaththrob Riser SWD Release			
Project Location: Lea County, New Mexico		Project #: 212C-MD-02363	
Invoice to: Todd Wells		Sampler Signature: Devin Dominguez	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE	None
	H-1 (0-1)	11/19/2020		X				X	1	N	
	H-2 (0-1)	11/19/2020		X				X	1	N	
	H-3 (0-1)	11/19/2020		X				X	1	N	
	H-4 (0-1)	11/19/2020		X				X	1	N	
	H-5 (0-1)	11/19/2020		X				X	1	N	
	H-6 (0-1)	11/19/2020		X				X	1	N	
	H-7 (0-1)	11/19/2020		X				X	1	N	
	H-8 (0-1)	11/19/2020		X				X	1	N	
	H-9 (0-1)	11/19/2020		X				X	1	N	
	H-10 (0-1)	11/19/2020		X				X	1	N	

LAB USE ONLY		REMARKS:
Relinquished by:	Date: Time:	
Relinquished by: [Signature]	Date: 11/20 Time: 11:00	(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____ Sample Temperature: 2.0 / 2.5 ☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report
Relinquished by: [Signature]	Date: 11/20 Time: 11:00	
Relinquished by: [Signature]	Date: 11/20 Time: 11:00	

 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
 TPH 8015R
 Hold

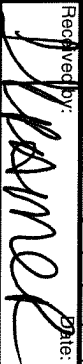
ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Client Name:		EOG		Site Manager:		Mike Carmona							
Project Name:		Hearthrob Riser SWD Release											
Project Location: (county, state)		Lea County, New Mexico				Project #:							
Invoice to:						212C-MD-02363							
Receiving Laboratory:		Todd Wells		Sampler Signature:		Devin Dominguez							
Comments:													
LAB # (LAB USE ONLY)		SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS		FILTERED (Y/N)	
				YEAR: 2020									
		H-11 (0-1')		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None		
		H-12 (0-1')		11/19/2020			X			X		1	N
		H-13 (0-1')		11/19/2020			X			X		1	N
		H-14 (0-1')		11/19/2020			X			X		1	N
		H-15 (0-1')		11/19/2020			X			X		1	N
Relinquished by:				Date:	Time:	Received by:				Date:	Time:		
Relinquished by:				Date:	Time:	Received by:				Date:	Time:		
Relinquished by:				Date:	Time:	Received by:				Date:	Time:		

LAB USE ONLY

Sample Temperature: 20/25

REMARKS:

☐ STANDARD

☒ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

ANALYSIS REQUEST

(Circle or Specify Method No.)

Method No.	Analysis Request
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	
TPH 8015R	
Hold	

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Page 2 of 2

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 11.20.2020 02.26.11 PM

Work Order #: 678617

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	N/A
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 11.20.2020

Checklist reviewed by:



Jessica Kramer

Date: 11.20.2020

Certificate of Analysis Summary 685671



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410

Contact: Brittany Long

Project Location: Lea County, NM

Date Received in Lab: Fri 01.22.2021 08:45

Report Date: 01.27.2021 08:31

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	685671-001	685671-002	685671-003	685671-004	685671-005	685671-006
	<i>Field Id:</i>	T- 1 (0-1')	T- 1 (1')	T- 1 (2')	T- 1 (3')	T- 1 (4')	T- 2 (0-1')
	<i>Depth:</i>	0-1 ft	1 ft	2 ft	3 ft	4 ft	0-1 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00
BTEX by EPA 8021B	<i>Extracted:</i>	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00
	<i>Analyzed:</i>	01.22.2021 19:36	01.22.2021 19:58	01.22.2021 20:21	01.22.2021 20:43	01.22.2021 21:06	01.22.2021 21:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00398 0.00398	<0.00401 0.00401	<0.00404 0.00404	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00199 0.00199	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14
	<i>Analyzed:</i>	01.25.2021 17:48	01.25.2021 18:16	01.25.2021 18:22	01.25.2021 18:27	01.25.2021 18:33	01.25.2021 18:39
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7890 D 505	3090 202	2730 201	268 101	13.2 10.1	8770 198
TPH By SW8015 Mod SUB: T104704400-20-21	<i>Extracted:</i>	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00
	<i>Analyzed:</i>	01.24.2021 13:14	01.24.2021 14:10	01.24.2021 14:31	01.24.2021 14:52	01.24.2021 15:14	01.24.2021 15:56
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410

Contact: Brittany Long

Project Location: Lea County, NM

Date Received in Lab: Fri 01.22.2021 08:45

Report Date: 01.27.2021 08:31

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	685671-007	685671-008	685671-009	685671-010	685671-011	
	<i>Field Id:</i>	T- 2 (1')	T- 2 (2')	T- 2 (3')	T- 2 (4')	T- 2 (5')	
	<i>Depth:</i>	1 ft	2 ft	3 ft	4 ft	4 ft	
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	
	<i>Sampled:</i>	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	01.21.2021 00:00	
BTEX by EPA 8021B	<i>Extracted:</i>	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	01.22.2021 14:00	
	<i>Analyzed:</i>	01.22.2021 21:50	01.22.2021 22:13	01.22.2021 22:35	01.22.2021 22:58	01.23.2021 00:11	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
m,p-Xylenes		<0.00404 0.00404	<0.00401 0.00401	<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	
Inorganic Anions by EPA 300/300.1	<i>Extracted:</i>	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	01.22.2021 17:14	
	<i>Analyzed:</i>	01.25.2021 18:44	01.25.2021 18:50	01.25.2021 18:56	01.25.2021 19:01	01.25.2021 19:18	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		6070 200	7080 198	5280 202	1730 202	172 9.90	
TPH By SW8015 Mod SUB: T104704400-20-21	<i>Extracted:</i>	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	01.24.2021 10:00	
	<i>Analyzed:</i>	01.24.2021 16:18	01.24.2021 16:39	01.24.2021 17:01	01.24.2021 17:22	01.24.2021 17:44	
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	
Total TPH		<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	

BRL - Below Reporting Limit

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



Analytical Report 685671

for

Tetra Tech- Midland

Project Manager: Brittany Long

Heart Throb Riser

212C-MD-02410

01.27.2021

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.27.2021

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **685671**

Heart Throb Riser

Project Address: Lea County, NM

Brittany Long:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 685671. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 685671 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 685671****Tetra Tech- Midland, Midland, TX**

Heart Throb Riser

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T- 1 (0-1')	S	01.21.2021 00:00	0 - 1 ft	685671-001
T- 1 (1')	S	01.21.2021 00:00	- 1 ft	685671-002
T- 1 (2')	S	01.21.2021 00:00	- 2 ft	685671-003
T- 1 (3')	S	01.21.2021 00:00	- 3 ft	685671-004
T- 1 (4')	S	01.21.2021 00:00	- 4 ft	685671-005
T- 2 (0-1')	S	01.21.2021 00:00	0 - 1 ft	685671-006
T- 2 (1')	S	01.21.2021 00:00	- 1 ft	685671-007
T- 2 (2')	S	01.21.2021 00:00	- 2 ft	685671-008
T- 2 (3')	S	01.21.2021 00:00	- 3 ft	685671-009
T- 2 (4')	S	01.21.2021 00:00	- 4 ft	685671-010
T- 2 (5')	S	01.21.2021 00:00	- 4 ft	685671-011



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Heart Throb Riser

Project ID: 212C-MD-02410
Work Order Number(s): 685671

Report Date: 01.27.2021
Date Received: 01.22.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3148788 TPH By SW8015 Mod

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

Samples affected are: 685671-006.



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (0-1')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-001 Date Collected: 01.21.2021 00:00 Sample Depth: 0 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7890	505	mg/kg	01.26.2021 14:58	D	50

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.24.2021 13:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.24.2021 13:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.24.2021 13:14	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.24.2021 13:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	01.24.2021 13:14	
o-Terphenyl	84-15-1	104	%	70-130	01.24.2021 13:14	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (0-1')**
 Lab Sample Id: 685671-001

Matrix: Soil
 Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
 Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 19:36	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 19:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	113	%	70-130	01.22.2021 19:36		
1,4-Difluorobenzene	540-36-3	101	%	70-130	01.22.2021 19:36		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (1')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-002 Date Collected: 01.21.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3090	202	mg/kg	01.25.2021 18:16		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 14:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 14:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 14:10	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 14:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane	111-85-3	96	%	70-130	01.24.2021 14:10		
o-Terphenyl	84-15-1	107	%	70-130	01.24.2021 14:10		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (1')**
 Lab Sample Id: 685671-002

Matrix: Soil
 Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.22.2021 19:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.22.2021 19:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.22.2021 19:58		
4-Bromofluorobenzene	460-00-4	117	%	70-130	01.22.2021 19:58		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 1 (2') Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-003 Date Collected: 01.21.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2730	201	mg/kg	01.25.2021 18:22		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.24.2021 14:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.24.2021 14:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.24.2021 14:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.24.2021 14:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	01.24.2021 14:31	
o-Terphenyl	84-15-1	102	%	70-130	01.24.2021 14:31	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 1 (2')
Lab Sample Id: 685671-003

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 20:21	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 20:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.22.2021 20:21		
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.22.2021 20:21		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (3')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-004 Date Collected: 01.21.2021 00:00 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	268	101	mg/kg	01.25.2021 18:27		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 14:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 14:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 14:52	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 14:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	01.24.2021 14:52	
o-Terphenyl	84-15-1	106	%	70-130	01.24.2021 14:52	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (3')**
 Lab Sample Id: 685671-004

Matrix: Soil
 Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
 Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.22.2021 20:43	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 20:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.22.2021 20:43		
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.22.2021 20:43		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (4')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-005 Date Collected: 01.21.2021 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.2	10.1	mg/kg	01.25.2021 18:33		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 15:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 15:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 15:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 15:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	01.24.2021 15:14	
o-Terphenyl	84-15-1	116	%	70-130	01.24.2021 15:14	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 1 (4')**
 Lab Sample Id: 685671-005

Matrix: Soil
 Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
 Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
 Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.22.2021 21:06	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.22.2021 21:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.22.2021 21:06		
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.22.2021 21:06		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 2 (0-1')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-006 Date Collected: 01.21.2021 00:00 Sample Depth: 0 - 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8770	198	mg/kg	01.25.2021 18:39		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.24.2021 15:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.24.2021 15:56	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.24.2021 15:56	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.24.2021 15:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	01.24.2021 15:56	
o-Terphenyl	84-15-1	133	%	70-130	01.24.2021 15:56	**



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 2 (0-1')**

Matrix: Soil

Date Received: 01.22.2021 08:45

Lab Sample Id: 685671-006

Date Collected: 01.21.2021 00:00

Sample Depth: 0 - 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:

Seq Number: 3148776

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.22.2021 21:28	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.22.2021 21:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.22.2021 21:28		
1,4-Difluorobenzene	540-36-3	109	%	70-130	01.22.2021 21:28		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (1') Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-007 Date Collected: 01.21.2021 00:00 Sample Depth: 1 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6070	200	mg/kg	01.25.2021 18:44		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 16:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 16:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 16:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 16:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	01.24.2021 16:18	
o-Terphenyl	84-15-1	112	%	70-130	01.24.2021 16:18	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (1')
Lab Sample Id: 685671-007

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	01.22.2021 21:50	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.22.2021 21:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.22.2021 21:50		
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.22.2021 21:50		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (2') Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-008 Date Collected: 01.21.2021 00:00 Sample Depth: 2 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7080	198	mg/kg	01.25.2021 18:50		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 16:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 16:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 16:39	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 16:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	01.24.2021 16:39	
o-Terphenyl	84-15-1	120	%	70-130	01.24.2021 16:39	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (2')
Lab Sample Id: 685671-008

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.22.2021 22:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.22.2021 22:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	120	%	70-130	01.22.2021 22:13		
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.22.2021 22:13		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 2 (3')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-009 Date Collected: 01.21.2021 00:00 Sample Depth: 3 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5280	202	mg/kg	01.25.2021 18:56		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.24.2021 17:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.24.2021 17:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.24.2021 17:01	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.24.2021 17:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	01.24.2021 17:01	
o-Terphenyl	84-15-1	119	%	70-130	01.24.2021 17:01	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (3')
Lab Sample Id: 685671-009

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.22.2021 22:35	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.22.2021 22:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	01.22.2021 22:35		
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.22.2021 22:35		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: **T- 2 (4')** Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-010 Date Collected: 01.21.2021 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1730	202	mg/kg	01.25.2021 19:01		20

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.24.2021 17:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.24.2021 17:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.24.2021 17:22	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.24.2021 17:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	01.24.2021 17:22	
o-Terphenyl	84-15-1	118	%	70-130	01.24.2021 17:22	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (4')
Lab Sample Id: 685671-010

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.22.2021 22:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.22.2021 22:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.22.2021 22:58		
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.22.2021 22:58		



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (5') Matrix: Soil Date Received: 01.22.2021 08:45
 Lab Sample Id: 685671-011 Date Collected: 01.21.2021 00:00 Sample Depth: 4 ft
 Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
 Tech: MAB
 Analyst: MAB Date Prep: 01.22.2021 17:14 % Moisture:
 Seq Number: 3148912 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	172	9.90	mg/kg	01.25.2021 19:18		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P
 Tech: ARM
 Analyst: ARM Date Prep: 01.24.2021 10:00 % Moisture:
 Seq Number: 3148788 Basis: Wet Weight
 SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.24.2021 17:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.24.2021 17:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.24.2021 17:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.24.2021 17:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	01.24.2021 17:44	
o-Terphenyl	84-15-1	121	%	70-130	01.24.2021 17:44	



Certificate of Analytical Results 685671

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id: T- 2 (5')
Lab Sample Id: 685671-011

Matrix: Soil
Date Collected: 01.21.2021 00:00

Date Received: 01.22.2021 08:45
Sample Depth: 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

Analyst: MAB

Date Prep: 01.22.2021 14:00

% Moisture:
Basis: Wet Weight

Seq Number: 3148776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.23.2021 00:11	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.23.2021 00:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	01.23.2021 00:11		
4-Bromofluorobenzene	460-00-4	111	%	70-130	01.23.2021 00:11		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Heart Throb Riser

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3148912

Matrix: Solid

Prep Method: E300P

Date Prep: 01.22.2021

MB Sample Id: 7719907-1-BLK

LCS Sample Id: 7719907-1-BKS

LCSD Sample Id: 7719907-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	215	108	212	106	90-110	1	20	mg/kg	01.25.2021 17:14	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3148912

Matrix: Soil

Prep Method: E300P

Date Prep: 01.22.2021

Parent Sample Id: 685671-001

MS Sample Id: 685671-001 S

MSD Sample Id: 685671-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7890	247	8140	101	8130	97	90-110	0	20	mg/kg	01.26.2021 15:04	

Analytical Method: Inorganic Anions by EPA 300/300.1

Seq Number: 3148912

Matrix: Soil

Prep Method: E300P

Date Prep: 01.22.2021

Parent Sample Id: 685671-011

MS Sample Id: 685671-011 S

MSD Sample Id: 685671-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	172	199	389	109	392	109	90-110	1	20	mg/kg	01.25.2021 19:24	

Analytical Method: TPH By SW8015 Mod

Seq Number: 3148788

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.24.2021

MB Sample Id: 7719894-1-BLK

LCS Sample Id: 7719894-1-BKS

LCSD Sample Id: 7719894-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1110	111	1070	107	70-130	4	20	mg/kg	01.24.2021 09:56	
Diesel Range Organics (DRO)	<50.0	1000	1180	118	1110	111	70-130	6	20	mg/kg	01.24.2021 09:56	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		116		111		70-130	%	01.24.2021 09:56
o-Terphenyl	130		122		116		70-130	%	01.24.2021 09:56

Analytical Method: TPH By SW8015 Mod

Seq Number: 3148788

Matrix: Solid

Prep Method: SW8015P

Date Prep: 01.24.2021

MB Sample Id: 7719894-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.24.2021 09:34	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland

Heart Throb Riser

Analytical Method: TPH By SW8015 Mod

Seq Number: 3148788

Parent Sample Id: 685628-001

Matrix: Soil

MS Sample Id: 685628-001 S

Prep Method: SW8015P

Date Prep: 01.24.2021

MSD Sample Id: 685628-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	996	1010	101	925	93	70-130	9	20	mg/kg	01.24.2021 11:02	
Diesel Range Organics (DRO)	136	996	1210	108	1160	103	70-130	4	20	mg/kg	01.24.2021 11:02	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		102		70-130	%	01.24.2021 11:02
o-Terphenyl	116		106		70-130	%	01.24.2021 11:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148776

MB Sample Id: 7719896-1-BLK

Matrix: Solid

LCS Sample Id: 7719896-1-BKS

Prep Method: SW5035A

Date Prep: 01.22.2021

LCSD Sample Id: 7719896-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0994	99	0.0928	93	70-130	7	35	mg/kg	01.22.2021 17:09	
Toluene	<0.00200	0.100	0.0985	99	0.0901	90	70-130	9	35	mg/kg	01.22.2021 17:09	
Ethylbenzene	<0.00200	0.100	0.0977	98	0.0927	93	71-129	5	35	mg/kg	01.22.2021 17:09	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.188	94	70-135	7	35	mg/kg	01.22.2021 17:09	
o-Xylene	<0.00200	0.100	0.100	100	0.0920	92	71-133	8	35	mg/kg	01.22.2021 17:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		100		70-130	%	01.22.2021 17:09
4-Bromofluorobenzene	114		107		107		70-130	%	01.22.2021 17:09

Analytical Method: BTEX by EPA 8021B

Seq Number: 3148776

Parent Sample Id: 685671-001

Matrix: Soil

MS Sample Id: 685671-001 S

Prep Method: SW5035A

Date Prep: 01.22.2021

MSD Sample Id: 685671-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.102	102	0.0964	97	70-130	6	35	mg/kg	01.22.2021 17:54	
Toluene	<0.00199	0.0996	0.0970	97	0.0892	90	70-130	8	35	mg/kg	01.22.2021 17:54	
Ethylbenzene	<0.00199	0.0996	0.0948	95	0.0942	95	71-129	1	35	mg/kg	01.22.2021 17:54	
m,p-Xylenes	<0.00398	0.199	0.193	97	0.191	96	70-135	1	35	mg/kg	01.22.2021 17:54	
o-Xylene	<0.00199	0.0996	0.0952	96	0.0938	94	71-133	1	35	mg/kg	01.22.2021 17:54	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		104		70-130	%	01.22.2021 17:54
4-Bromofluorobenzene	110		107		70-130	%	01.22.2021 17:54

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Fax (432) 682-3946

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Heart Throb Riser

Project Location:
(county state)

Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

[illegible]

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature

08/20

72 hr

☐ Rush Charges Authorized☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

Page 1 of 2

॥

Tetra Tech, Inc.



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

Page 2 of 2

15028

Client Name:

EOG

Project Name:

Heart Throb Riser

Project Location:

Lea County, NM

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Comments:

Site Manager:

Britany Long

Project #:

212C-MD-02410

Sampler Signature:

Ezequiel Moreno

LAB #

(LAB USE ONLY)

SAMPLE IDENTIFICATION

T-2 (5)

SAMPLING

YEAR: 2020

DATE

TIME

MATRIX

WATER

SOIL

HCL

HNO₃

ICE

None

PRESERVATIVE METHOD

CONTAINERS

1

FILTERED (Y/N)

N

BTEX 8021B

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 300.0

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

TPH 8015R

Hold

Relinquished by:

Eugene M...

Date:

11/22/21

Time:

0847

Received by:

Claudia...

Date:

1-22-21

Time:

0845

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

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

0.8/0.4

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

ANALYSIS REQUEST

(Circle or Specify Method No.)

Inter-Office Shipment

IOS Number : **76893**

Date/Time: 01.22.2021

Created by: Cloe Clifton

Please send report to: Jessica Kramer

Lab# From: **Carlsbad**

Delivery Priority:

Address: 1089 N Canal Street

Lab# To: **Midland**

Air Bill No.:

E-Mail: jessica.kramer@eurofinset.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
685671-001	S	T- 1 (0-1')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-002	S	T- 1 (1')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-003	S	T- 1 (2')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-004	S	T- 1 (3')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-005	S	T- 1 (4')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-006	S	T- 2 (0-1')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-007	S	T- 2 (1')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-008	S	T- 2 (2')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-009	S	T- 2 (3')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-010	S	T- 2 (4')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	
685671-011	S	T- 2 (5')	01.21.2021 00:00	SW8015MOD_NM	TPH By SW8015 Mod	01.26.2021	02.04.2021	JKR	PHCC10C28 PHCC28C35	

Inter Office Shipment or Sample Comments:

Relinquished By:



Cloe Clifton

Date Relinquished: 01.22.2021

Received By:



Jessica Kramer

Date Received: 01.22.2021

Cooler Temperature: 1.5

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 76893

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sent By: Cloe Clifton

Date Sent: 01.22.2021 09.58 AM

Received By: Jessica Kramer

Date Received: 01.22.2021 02.07 PM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Jessica Kramer

Jessica Kramer

Date: 01.22.2021

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland

Date/ Time Received: 01.22.2021 08.45.00 AM

Work Order #: 685671

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : t_nm_007

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

Samples received in bulk containers.

TPH sent to Midland

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 01.22.2021

Checklist reviewed by:



Jessica Kramer

Date: 01.22.2021

Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-001	686345-002	686345-003	686345-004	686345-005	686345-006
	Field Id:	T-3 (0-1')	T-3 (1')	T-3 (2')	T-3 (3')	T-3 (4')	T-3 (5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	Extracted:	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04
	Analyzed:	01.27.2021 22:31	01.27.2021 22:48	01.27.2021 22:53	01.27.2021 22:59	01.27.2021 23:05	01.27.2021 23:22
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6170 100	6840 101	6190 101	4230 99.4	1490 99.4	158 10.0

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 686345



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
Contact: Brittany Long
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
Report Date: 01.29.2021 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686345-007	686345-008	686345-009	686345-010	686345-011	686345-012
	<i>Field Id:</i>	T-4 (0-1')	T-4 (1')	T-4 (2')	T-4 (3')	T-4 (4')	T-4 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	<i>Extracted:</i>	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04
	<i>Analyzed:</i>	01.27.2021 23:27	01.27.2021 23:33	01.27.2021 23:39	01.27.2021 23:44	01.27.2021 23:50	01.28.2021 00:07
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6790 100	1300 99.0	170 10.1	76.0 10.0	493 50.5	30.2 10.1

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 686345



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
Contact: Brittany Long
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
Report Date: 01.29.2021 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686345-013	686345-014	686345-015	686345-016	686345-017	686345-018
	<i>Field Id:</i>	T-5 (0-1')	T-5 (1')	T-5 (2')	T-5 (3')	T-5 (4')	T-5 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	<i>Extracted:</i>	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 17:04
	<i>Analyzed:</i>	01.28.2021 00:13	01.28.2021 00:30	01.28.2021 00:35	01.28.2021 00:41	01.28.2021 00:47	01.28.2021 00:52
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		12300 202	5610 101	5910 101	5870 101	2010 101	29.5 10.1

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 686345



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
Contact: Brittany Long
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
Report Date: 01.29.2021 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686345-019	686345-020	686345-021	686345-022	686345-023	686345-024
	<i>Field Id:</i>	T-6 (0-1')	T-6 (1')	T-6 (2')	T-6 (3')	T-6 (4')	T-6 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	<i>Extracted:</i>	01.27.2021 17:04	01.27.2021 17:04	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06
	<i>Analyzed:</i>	01.28.2021 00:58	01.28.2021 01:04	01.28.2021 01:38	01.28.2021 01:55	01.28.2021 02:00	01.28.2021 02:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6730 99.6	6750 101	7520 99.8	2030 100	1080 101	22.0 9.96

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-025	686345-026	686345-027	686345-028	686345-029	686345-030
	Field Id:	T-7 (0-1')	T-7 (1')	T-7 (2')	T-7 (3')	T-7 (4')	T-7 (5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	01.26.2021 00:00	01.26.2021 00:00	01.26.2021 00:00	01.26.2021 00:00	01.26.2021 00:00	01.26.2021 00:00
Chloride by EPA 300	Extracted:	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06
	Analyzed:	01.28.2021 02:12	01.28.2021 02:29	01.28.2021 02:34	01.28.2021 02:40	01.28.2021 02:46	01.28.2021 02:51
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		7080 99.8	5040 101	3670 99.8	351 49.9	716 49.5	158 49.9

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 686345



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
Contact: Brittany Long
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
Report Date: 01.29.2021 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686345-031	686345-032	686345-033	686345-034	686345-035	686345-036
	<i>Field Id:</i>	T-8 (0-1')	T-8 (1')	T-8 (2')	T-8 (3')	T-8 (4')	T-8 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00
Chloride by EPA 300	<i>Extracted:</i>	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06
	<i>Analyzed:</i>	01.28.2021 02:57	01.28.2021 03:14	01.28.2021 03:20	01.28.2021 03:37	01.28.2021 03:42	01.28.2021 03:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		6690 99.0	4960 100	5970 101	6050 99.0	1120 101	3600 101

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-037	686345-038	686345-039	686345-040	686345-041	686345-042
	Field Id:	T-9 (0-1')	T-9 (1')	T-9 (2')	T-9 (3')	T-9 (4')	T-9 (5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00
Chloride by EPA 300	Extracted:	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:06	01.27.2021 18:09	01.27.2021 18:09
	Analyzed:	01.28.2021 03:54	01.28.2021 03:59	01.28.2021 04:05	01.28.2021 04:11	01.28.2021 15:54	01.28.2021 16:11
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5180 99.0	5430 99.4	4920 101	2470 99.4	591 49.5	16.3 9.98

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-043	686345-044	686345-045	686345-046	686345-047	686345-048
	Field Id:	T-10 (0-1')	T-10 (1')	T-10 (2')	T-10 (3')	T-10 (4')	T-10 (5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00	01.27.2021 00:00
Chloride by EPA 300	Extracted:	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09
	Analyzed:	01.28.2021 16:16	01.28.2021 16:22	01.28.2021 16:28	01.28.2021 16:45	01.28.2021 16:51	01.28.2021 16:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5880 99.8	3580 99.0	2360 99.8	944 99.2	44.3 9.98	14.0 9.98

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-049	686345-050	686345-051	686345-052	686345-053	686345-054
	Field Id:	T-11 (0-1')	T-11 (1')	T-11 (2')	T-11 (3')	T-11 (4')	T-11 (5')
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	Extracted:	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09
	Analyzed:	01.28.2021 17:02	01.28.2021 17:08	01.28.2021 17:13	01.28.2021 17:30	01.28.2021 17:36	01.28.2021 17:53
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		4130 99.8	4020 99.6	2550 99.2	535 50.1	264 50.1	39.2 9.98

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 686345



Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
Contact: Brittany Long
Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
Report Date: 01.29.2021 14:26
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	686345-055	686345-056	686345-057	686345-058	686345-059	686345-060
	<i>Field Id:</i>	T-12 (0-1')	T-12 (1')	T-12 (2')	T-12 (3')	T-12 (4')	T-12 (5')
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00
Chloride by EPA 300	<i>Extracted:</i>	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09	01.27.2021 18:09
	<i>Analyzed:</i>	01.28.2021 17:59	01.28.2021 18:04	01.28.2021 18:10	01.28.2021 18:16	01.28.2021 18:21	01.28.2021 18:27
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		5330 99.6	6110 99.8	4400 100	4660 100	780 50.1	17.8 10.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 686345

Tetra Tech- Midland, Midland, TX

Project Name: Heart Throb Riser

Project Id: 212C-MD-02410
 Contact: Brittany Long
 Project Location: Lea County, New Mexico

Date Received in Lab: Wed 01.27.2021 16:30
 Report Date: 01.29.2021 14:26
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686345-061	686345-062	686345-063	686345-064	686345-065	
	Field Id:	T-13 (0-1')	T-13 (1')	T-13 (2')	T-13 (3')	T-13 (4')	
	Depth:						
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	01.25.2021 00:00	
Chloride by EPA 300	Extracted:	*** ** *	*** ** *	*** ** *	*** ** *	*** ** *	
	Analyzed:	01.27.2021 21:34	01.27.2021 21:39	01.27.2021 21:45	01.27.2021 21:51	01.27.2021 21:57	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		3630 99.0	35.5 10.0	13.3 10.0	259 49.9	14.4 9.92	

BRL - Below Reporting Limit

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





Analytical Report 686345

for

Tetra Tech- Midland

Project Manager: Brittany Long

Heart Throb Riser

212C-MD-02410

01.29.2021

Collected By: Client

**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



01.29.2021

Project Manager: **Brittany Long**

Tetra Tech- Midland

901 West Wall ST

Midland, TX 79701

Reference: Eurofins Xenco, LLC Report No(s): **686345**

Heart Throb Riser

Project Address: Lea County, New Mexico

Brittany Long:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686345. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686345 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 686345

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-3 (0-1')	S	01.25.2021 00:00		686345-001
T-3 (1')	S	01.25.2021 00:00		686345-002
T-3 (2')	S	01.25.2021 00:00		686345-003
T-3 (3')	S	01.25.2021 00:00		686345-004
T-3 (4')	S	01.25.2021 00:00		686345-005
T-3 (5')	S	01.25.2021 00:00		686345-006
T-4 (0-1')	S	01.25.2021 00:00		686345-007
T-4 (1')	S	01.25.2021 00:00		686345-008
T-4 (2')	S	01.25.2021 00:00		686345-009
T-4 (3')	S	01.25.2021 00:00		686345-010
T-4 (4')	S	01.25.2021 00:00		686345-011
T-4 (5')	S	01.25.2021 00:00		686345-012
T-5 (0-1')	S	01.25.2021 00:00		686345-013
T-5 (1')	S	01.25.2021 00:00		686345-014
T-5 (2')	S	01.25.2021 00:00		686345-015
T-5 (3')	S	01.25.2021 00:00		686345-016
T-5 (4')	S	01.25.2021 00:00		686345-017
T-5 (5')	S	01.25.2021 00:00		686345-018
T-6 (0-1')	S	01.25.2021 00:00		686345-019
T-6 (1')	S	01.25.2021 00:00		686345-020
T-6 (2')	S	01.25.2021 00:00		686345-021
T-6 (3')	S	01.25.2021 00:00		686345-022
T-6 (4')	S	01.25.2021 00:00		686345-023
T-6 (5')	S	01.25.2021 00:00		686345-024
T-7 (0-1')	S	01.26.2021 00:00		686345-025
T-7 (1')	S	01.26.2021 00:00		686345-026
T-7 (2')	S	01.26.2021 00:00		686345-027
T-7 (3')	S	01.26.2021 00:00		686345-028
T-7 (4')	S	01.26.2021 00:00		686345-029
T-7 (5')	S	01.26.2021 00:00		686345-030
T-8 (0-1')	S	01.27.2021 00:00		686345-031
T-8 (1')	S	01.27.2021 00:00		686345-032
T-8 (2')	S	01.27.2021 00:00		686345-033
T-8 (3')	S	01.27.2021 00:00		686345-034
T-8 (4')	S	01.27.2021 00:00		686345-035
T-8 (5')	S	01.27.2021 00:00		686345-036
T-9 (0-1')	S	01.27.2021 00:00		686345-037
T-9 (1')	S	01.27.2021 00:00		686345-038
T-9 (2')	S	01.27.2021 00:00		686345-039
T-9 (3')	S	01.27.2021 00:00		686345-040
T-9 (4')	S	01.27.2021 00:00		686345-041
T-9 (5')	S	01.27.2021 00:00		686345-042
T-10 (0-1')	S	01.27.2021 00:00		686345-043



Sample Cross Reference 686345

Tetra Tech- Midland, Midland, TX

Heart Throb Riser

T-10 (1')	S	01.27.2021 00:00	686345-044
T-10 (2')	S	01.27.2021 00:00	686345-045
T-10 (3')	S	01.27.2021 00:00	686345-046
T-10 (4')	S	01.27.2021 00:00	686345-047
T-10 (5')	S	01.27.2021 00:00	686345-048
T-11 (0-1')	S	01.25.2021 00:00	686345-049
T-11 (1')	S	01.25.2021 00:00	686345-050
T-11 (2')	S	01.25.2021 00:00	686345-051
T-11 (3')	S	01.25.2021 00:00	686345-052
T-11 (4')	S	01.25.2021 00:00	686345-053
T-11 (5')	S	01.25.2021 00:00	686345-054
T-12 (0-1')	S	01.25.2021 00:00	686345-055
T-12 (1')	S	01.25.2021 00:00	686345-056
T-12 (2')	S	01.25.2021 00:00	686345-057
T-12 (3')	S	01.25.2021 00:00	686345-058
T-12 (4')	S	01.25.2021 00:00	686345-059
T-12 (5')	S	01.25.2021 00:00	686345-060
T-13 (0-1')	S	01.25.2021 00:00	686345-061
T-13 (1')	S	01.25.2021 00:00	686345-062
T-13 (2')	S	01.25.2021 00:00	686345-063
T-13 (3')	S	01.25.2021 00:00	686345-064
T-13 (4')	S	01.25.2021 00:00	686345-065



CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: Heart Throb Riser

Project ID: 212C-MD-02410
Work Order Number(s): 686345

Report Date: 01.29.2021
Date Received: 01.27.2021

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (0-1')**
Lab Sample Id: 686345-001

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6170	100	mg/kg	01.27.2021 22:31		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (1')**
Lab Sample Id: 686345-002

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6840	101	mg/kg	01.27.2021 22:48		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (2')**
Lab Sample Id: 686345-003

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6190	101	mg/kg	01.27.2021 22:53		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (3')**
Lab Sample Id: 686345-004

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4230	99.4	mg/kg	01.27.2021 22:59		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (4')**
Lab Sample Id: 686345-005

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1490	99.4	mg/kg	01.27.2021 23:05		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-3 (5')**
Lab Sample Id: 686345-006

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	158	10.0	mg/kg	01.27.2021 23:22		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (0-1')**
Lab Sample Id: 686345-007

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6790	100	mg/kg	01.27.2021 23:27		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (1')**
Lab Sample Id: 686345-008

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1300	99.0	mg/kg	01.27.2021 23:33		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (2')**
Lab Sample Id: 686345-009

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	170	10.1	mg/kg	01.27.2021 23:39		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (3')**
Lab Sample Id: 686345-010

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	76.0	10.0	mg/kg	01.27.2021 23:44		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (4')**
Lab Sample Id: 686345-011

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	493	50.5	mg/kg	01.27.2021 23:50		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-4 (5')**
Lab Sample Id: 686345-012

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.2	10.1	mg/kg	01.28.2021 00:07		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (0-1')**
Lab Sample Id: 686345-013

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12300	202	mg/kg	01.28.2021 00:13		20

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (1')**
Lab Sample Id: 686345-014

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5610	101	mg/kg	01.28.2021 00:30		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (2')**
Lab Sample Id: 686345-015

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5910	101	mg/kg	01.28.2021 00:35		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (3')**
Lab Sample Id: 686345-016

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5870	101	mg/kg	01.28.2021 00:41		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (4')**
Lab Sample Id: 686345-017

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2010	101	mg/kg	01.28.2021 00:47		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-5 (5')**
Lab Sample Id: 686345-018

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	29.5	10.1	mg/kg	01.28.2021 00:52		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (0-1')**
Lab Sample Id: 686345-019

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6730	99.6	mg/kg	01.28.2021 00:58		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (1')**
Lab Sample Id: 686345-020

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 17:04

% Moisture:
Basis: Wet Weight

Seq Number: 3149217

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6750	101	mg/kg	01.28.2021 01:04		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (2')**
Lab Sample Id: 686345-021

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7520	99.8	mg/kg	01.28.2021 01:38		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (3')**
Lab Sample Id: 686345-022

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2030	100	mg/kg	01.28.2021 01:55		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (4')**
Lab Sample Id: 686345-023

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1080	101	mg/kg	01.28.2021 02:00		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-6 (5')**
Lab Sample Id: 686345-024

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.0	9.96	mg/kg	01.28.2021 02:06		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (0-1')**
Lab Sample Id: 686345-025

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7080	99.8	mg/kg	01.28.2021 02:12		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (1')**
Lab Sample Id: 686345-026

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5040	101	mg/kg	01.28.2021 02:29		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (2')**
Lab Sample Id: 686345-027

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3670	99.8	mg/kg	01.28.2021 02:34		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (3')**
Lab Sample Id: 686345-028

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	351	49.9	mg/kg	01.28.2021 02:40		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (4')**
Lab Sample Id: 686345-029

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	716	49.5	mg/kg	01.28.2021 02:46		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-7 (5')**
Lab Sample Id: 686345-030

Matrix: Soil
Date Collected: 01.26.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	158	49.9	mg/kg	01.28.2021 02:51		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (0-1')**
Lab Sample Id: 686345-031

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6690	99.0	mg/kg	01.28.2021 02:57		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (1')**
Lab Sample Id: 686345-032

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4960	100	mg/kg	01.28.2021 03:14		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (2')**
Lab Sample Id: 686345-033

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5970	101	mg/kg	01.28.2021 03:20		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (3')**
Lab Sample Id: 686345-034

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6050	99.0	mg/kg	01.28.2021 03:37		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (4')**
Lab Sample Id: 686345-035

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1120	101	mg/kg	01.28.2021 03:42		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-8 (5')**
Lab Sample Id: 686345-036

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3600	101	mg/kg	01.28.2021 03:48		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (0-1')**
Lab Sample Id: 686345-037

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5180	99.0	mg/kg	01.28.2021 03:54		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (1')**
Lab Sample Id: 686345-038

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5430	99.4	mg/kg	01.28.2021 03:59		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (2')**
Lab Sample Id: 686345-039

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4920	101	mg/kg	01.28.2021 04:05		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (3')**
Lab Sample Id: 686345-040

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:06

% Moisture:
Basis: Wet Weight

Seq Number: 3149225

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2470	99.4	mg/kg	01.28.2021 04:11		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (4')**
Lab Sample Id: 686345-041

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	591	49.5	mg/kg	01.28.2021 15:54		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-9 (5')**
Lab Sample Id: 686345-042

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.3	9.98	mg/kg	01.28.2021 16:11		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**Sample Id: **T-10 (0-1')**

Matrix: Soil

Date Received: 01.27.2021 16:30

Lab Sample Id: 686345-043

Date Collected: 01.27.2021 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:

Seq Number: 3149341

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5880	99.8	mg/kg	01.28.2021 16:16		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-10 (1')**
Lab Sample Id: 686345-044

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3580	99.0	mg/kg	01.28.2021 16:22		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-10 (2')**
Lab Sample Id: 686345-045

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2360	99.8	mg/kg	01.28.2021 16:28		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-10 (3')**
Lab Sample Id: 686345-046

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	944	99.2	mg/kg	01.28.2021 16:45		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-10 (4')**
Lab Sample Id: 686345-047

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	44.3	9.98	mg/kg	01.28.2021 16:51		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-10 (5')**
Lab Sample Id: 686345-048

Matrix: Soil
Date Collected: 01.27.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.0	9.98	mg/kg	01.28.2021 16:56		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**Sample Id: **T-11 (0-1')**

Matrix: Soil

Date Received: 01.27.2021 16:30

Lab Sample Id: 686345-049

Date Collected: 01.25.2021 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:

Seq Number: 3149341

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4130	99.8	mg/kg	01.28.2021 17:02		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-11 (1')**
Lab Sample Id: 686345-050

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4020	99.6	mg/kg	01.28.2021 17:08		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-11 (2')**
Lab Sample Id: 686345-051

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	2550	99.2	mg/kg	01.28.2021 17:13		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-11 (3')**
Lab Sample Id: 686345-052

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	535	50.1	mg/kg	01.28.2021 17:30		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-11 (4')**
Lab Sample Id: 686345-053

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	264	50.1	mg/kg	01.28.2021 17:36		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-11 (5')**
Lab Sample Id: 686345-054

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.2	9.98	mg/kg	01.28.2021 17:53		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**Sample Id: **T-12 (0-1')**

Matrix: Soil

Date Received: 01.27.2021 16:30

Lab Sample Id: 686345-055

Date Collected: 01.25.2021 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:

Seq Number: 3149341

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5330	99.6	mg/kg	01.28.2021 17:59		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-12 (1')**
Lab Sample Id: 686345-056

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6110	99.8	mg/kg	01.28.2021 18:04		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-12 (2')**
Lab Sample Id: 686345-057

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4400	100	mg/kg	01.28.2021 18:10		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-12 (3')**
Lab Sample Id: 686345-058

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4660	100	mg/kg	01.28.2021 18:16		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-12 (4')**
Lab Sample Id: 686345-059

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	780	50.1	mg/kg	01.28.2021 18:21		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-12 (5')**
Lab Sample Id: 686345-060

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 18:09

% Moisture:
Basis: Wet Weight

Seq Number: 3149341

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	17.8	10.0	mg/kg	01.28.2021 18:27		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**Sample Id: **T-13 (0-1')**

Matrix: Soil

Date Received: 01.27.2021 16:30

Lab Sample Id: 686345-061

Date Collected: 01.25.2021 00:00

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 16:00

% Moisture:

Seq Number: 3149215

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3630	99.0	mg/kg	01.27.2021 21:34		10

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-13 (1')**
Lab Sample Id: 686345-062

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 16:00

% Moisture:
Basis: Wet Weight

Seq Number: 3149215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.5	10.0	mg/kg	01.27.2021 21:39		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-13 (2')**
Lab Sample Id: 686345-063

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 16:00

% Moisture:
Basis: Wet Weight

Seq Number: 3149215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.3	10.0	mg/kg	01.27.2021 21:45		1

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-13 (3')**
Lab Sample Id: 686345-064

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 16:00

% Moisture:
Basis: Wet Weight

Seq Number: 3149215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	259	49.9	mg/kg	01.27.2021 21:51		5

**Certificate of Analytical Results 686345****Tetra Tech- Midland, Midland, TX****Heart Throb Riser**

Sample Id: **T-13 (4')**
Lab Sample Id: 686345-065

Matrix: Soil
Date Collected: 01.25.2021 00:00

Date Received: 01.27.2021 16:30

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 01.27.2021 16:00

% Moisture:
Basis: Wet Weight

Seq Number: 3149215

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.4	9.92	mg/kg	01.27.2021 21:57		1

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Tetra Tech- Midland

Heart Throb Riser

Analytical Method: Chloride by EPA 300

Seq Number: 3149215

MB Sample Id: 7720212-1-BLK

Matrix: Solid

LCS Sample Id: 7720212-1-BKS

Prep Method: E300P

Date Prep: 01.27.2021

LCSD Sample Id: 7720212-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	214	107	211	106	90-110	1	20	mg/kg	01.27.2021 19:29	

Analytical Method: Chloride by EPA 300

Seq Number: 3149217

MB Sample Id: 7720214-1-BLK

Matrix: Solid

LCS Sample Id: 7720214-1-BKS

Prep Method: E300P

Date Prep: 01.27.2021

LCSD Sample Id: 7720214-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	214	107	211	106	90-110	1	20	mg/kg	01.27.2021 22:19	

Analytical Method: Chloride by EPA 300

Seq Number: 3149225

MB Sample Id: 7720215-1-BLK

Matrix: Solid

LCS Sample Id: 7720215-1-BKS

Prep Method: E300P

Date Prep: 01.27.2021

LCSD Sample Id: 7720215-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	214	107	211	106	90-110	1	20	mg/kg	01.28.2021 01:26	

Analytical Method: Chloride by EPA 300

Seq Number: 3149341

MB Sample Id: 7720216-1-BLK

Matrix: Solid

LCS Sample Id: 7720216-1-BKS

Prep Method: E300P

Date Prep: 01.27.2021

LCSD Sample Id: 7720216-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	200	211	106	208	104	90-110	1	20	mg/kg	01.28.2021 15:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3149215

Parent Sample Id: 686300-001

Matrix: Soil

MS Sample Id: 686300-001 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686300-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.8	200	259	97	262	98	90-110	1	20	mg/kg	01.27.2021 19:46	

Analytical Method: Chloride by EPA 300

Seq Number: 3149217

Parent Sample Id: 686345-001

Matrix: Soil

MS Sample Id: 686345-001 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6170	201	6350	90	6370	99	90-110	0	20	mg/kg	01.27.2021 22:36	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



Tetra Tech- Midland

Heart Throb Riser

Analytical Method: Chloride by EPA 300

Seq Number: 3149217

Parent Sample Id: 686345-011

Matrix: Soil

MS Sample Id: 686345-011 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	493	201	707	106	702	105	90-110	1	20	mg/kg	01.27.2021 23:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3149225

Parent Sample Id: 686345-021

Matrix: Soil

MS Sample Id: 686345-021 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	7520	201	7700	90	7720	99	90-110	0	20	mg/kg	01.28.2021 01:43	

Analytical Method: Chloride by EPA 300

Seq Number: 3149225

Parent Sample Id: 686345-031

Matrix: Soil

MS Sample Id: 686345-031 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6690	201	6880	95	6900	104	90-110	0	20	mg/kg	01.28.2021 03:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3149341

Parent Sample Id: 686345-041

Matrix: Soil

MS Sample Id: 686345-041 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-041 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	591	200	792	101	791	100	90-110	0	20	mg/kg	01.28.2021 15:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3149341

Parent Sample Id: 686345-051

Matrix: Soil

MS Sample Id: 686345-051 S

Prep Method: E300P

Date Prep: 01.27.2021

MSD Sample Id: 686345-051 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2550	201	2740	95	2740	95	90-110	0	20	mg/kg	01.28.2021 17:19	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

301 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559 Fax (432) 682-4946

Page 1 of 7

1086345

Client Name: EOG		Site Manager: Brittany Long Brittany.Long@tetratech.com	
Project Name: Heart Throb Riser		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Invoice to: EOG Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None					
										YEAR: 2020				
	T-3 (0-1')	1/25/2021		X				X				1	N	BTEX 8021B
	T-3 (1')	1/25/2021		X				X				1	N	TPH TX1005 (Ext to C35)
	T-3 (2')	1/25/2021		X				X				1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	T-3 (3')	1/25/2021		X				X				1	N	PAH 8270C
	T-3 (4')	1/25/2021		X				X				1	N	Total Metals Ag As Ba Cd Cr Pb Se Hg
	T-3 (5')	1/25/2021		X				X				1	N	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	T-4 (0-1')	1/25/2021		X				X				1	N	TCLP Volatiles
	T-4 (1')	1/25/2021		X				X				1	N	TCLP Semi Volatiles
	T-4 (2')	1/25/2021		X				X				1	N	RCI
	T-4 (3')	1/25/2021		X				X				1	N	GC/MS Vol. 8260B / 624
														GC/MS Semi. Vol. 8270C/625
														PCB's 8082 / 608
														NORM
														PLM (Asbestos)
														Chloride 300.0
														Chloride Sulfate TDS
														General Water Chemistry (see attached list)
														Anion/Cation Balance
														TPH 8015R
														Hold

Inquired by: Tracy Moore	Date: 1/27/21	Time: 1630	Received by: Joe Long	Date: 1-27-21	Time: 1630
Inquired by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY	REMARKS:
☒ RUSH: Same Day 24 hr 48 hr 72 hr	☐ STANDARD
☐ Rush Charges Authorized	
☐ Special Report Limits or TRRP Report	

Sample Temperature: 8.6/3.4

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

ORIGINAL COPY

Analysis Request of Custody Record



Tetra Tech, Inc.

301 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559 Fax (432) 682-2946

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Heart Throb Riser

Brittany.Long@tetratech.com

Project Location:

Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

10:16:43 AM

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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	T-4 (4)	1/25/2021		X				X			1	N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

Inquired by: *Fund/More* Date: 1/27/21 Time: 1630
Received by: *Cue Cofe* Date: 1-27-21 Time: 1630

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

LAB USE ONLY
REMARKS:
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ STANDARD
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	
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 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

ORIGINAL COPY

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

10516 5413

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

1086545

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Heart Throb Riser		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Project #: 212C-MD-02410	
Invoice to: EOG Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		DATE	TIME				
		YEAR: 2020					
	T-6 (2)	1/25/2021		X		1	N
	T-6 (3)	1/25/2021		X		1	N
	T-6 (4)	1/25/2021		X		1	N
	T-6 (5)	1/25/2021		X		1	N
	T-7 (0-1)	1/26/2021		X		1	N
	T-7 (1)	1/26/2021		X		1	N
	T-7 (2)	1/26/2021		X		1	N
	T-7 (3)	1/26/2021		X		1	N
	T-7 (4)	1/26/2021		X		1	N
	T-7 (5)	1/26/2021		X		1	N

LAB USE ONLY	REMARKS:	STANDARD	
		☐ RUSH: Same Day 24 hr 48 hr 72 hr	☐ Rush Charges Authorized
		☐ Special Report Limits or TRRP Report	

ANALYSIS REQUEST (Circle or Specify Method No.)
BTEX 8021B
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 300.0
Chloride Sulfate TDS
General Water Chemistry (see attached list)
Anion/Cation Balance
TPH 8015R
Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 4 of 7

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Heart Throb Riser

Brittany.Long@tetratech.com

Project Location:
(county, state)

Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)
T-8 (0-1')	1/27/2021		X				X		1	N
T-8 (1')	1/27/2021		X				X		1	N
T-8 (2')	1/27/2021		X				X		1	N
T-8 (3')	1/27/2021		X				X		1	N
T-8 (4')	1/27/2021		X				X		1	N
T-8 (5')	1/27/2021		X				X		1	N
T-9 (0-1')	1/27/2021		X				X		1	N
T-9 (1')	1/27/2021		X				X		1	N
T-9 (2')	1/27/2021		X				X		1	N
T-9 (3')	1/27/2021		X				X		1	N

Requested by: *Ezequiel Moreno* 1/27/21 1630

Received by: *Ezequiel Moreno* 1/27/21 1630

Requested by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:
☐ STANDARD

Sample Temperature

3.6/3.4

☒ 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.)
- BTEX 8021B
 - 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 300.0
 - Chloride Sulfate TDS
 - General Water Chemistry (see attached list)
 - Anion/Cation Balance
 - TPH 8015R

Hold

ORIGINAL COPY

10800245

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

Page 6 of 7

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Heart Throb Riser

Brittany.Long@tetratech.com

Project Location:

Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

0:16:43 AM

LAB USE ONLY		DATE	TIME	WATER		HCL		HNO ₃		ICE	None	# CONTAINERS	FILTERED																Hold																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Relinquished by:

Ened Mue

Date: 1/27/21 Time: 1631

Date: Time:

Inquired by:

Date: Time:

Received by:

Oae Cufu

Date: 1-27-21 Time: 1636

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature

36/3.4

☒ 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.)

BTEX 8021B
 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 300.0
 Chloride Sulfate TDS
 General Water Chemistry (see attached list)
 Anion/Cation Balance
 TPH 8015R

Hold

ORIGINAL COPY

1086345

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

3001 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 692-4559 Fax (432) 692-3946

Page 7 of 7

Client Name:

EOG

Site Manager:

Brittany Long

Project Name:

Heart Throb Riser

Brittany.Long@tetratech.com

Project Location:

Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG Todd Wells

Receiving Laboratory:

Xenco

Sampler Signature:

Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

0:16:48 AM

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)
		YEAR: 2020			WATER	SOIL	HCL	HNO ₃	ICE		
		DATE	TIME								
	T-13 (0-1')	1/25/2021		X				X		1	N
	T-13 (1')	1/25/2021		X				X		1	N
	T-13 (2')	1/25/2021		X				X		1	N
	T-13 (3')	1/25/2021		X				X		1	N
	T-13 (4')	1/25/2021		X				X		1	N
										</	

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	
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 300.0	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
TPH 8015R	
Hold	

LAB USE ONLY

REMARKS:
☐ STANDARD

Sample Temperature

3.4/3.4

☒ 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

1086345



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-426-1

Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: Heart Throb Risers SWD - 212C-MD-02410
Revision: 1

For:

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

Attn: Clair Gonzales

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

Authorized for release by:
4/6/2021 5:16:01 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

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.

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Laboratory Job ID: 890-426-1
SDG: Lea County NM

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Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Job ID: 890-426-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-426-1

Receipt

The samples were received on 3/25/2021 11:36 AM. 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 1.4°C

Receipt Exceptions

The following samples analyzed for method BTEX 80021 were received and analyzed from an unpreserved bulk soil jar: BH-1 (3.5') (890-426-1), BH-2 (3.5') (890-426-2), BH-3 (3.5') (890-426-3), BH-4 (3.5') (890-426-4), BH-5 (3.5') (890-426-5), BH-6 (3.5') (890-426-6), BH-7 (3.5') (890-426-7), BH-8 (3.5') (890-426-8), BH-9 (3.5') (890-426-9), BH-10 (3.5') (890-426-10), BH-11 (5') (890-426-11), BH-12 (5') (890-426-12), BH-13 (5') (890-426-13), BH-14 (5') (890-426-14), BH-15 (5') (890-426-15), BH-16 (5') (890-426-16), BH-17 (5') (890-426-17), BH-18 (5') (890-426-18), BH-19 (5') (890-426-19), BH-20 (6') (890-426-20), BH-21 (6') (890-426-21), BH-22 (6') (890-426-22), BH-23 (6') (890-426-23), BH-24 (6') (890-426-24), BH-25 (6') (890-426-25), BH-26 (6') (890-426-26), BH-27 (6') (890-426-27), BH-28 (6.5') (890-426-28), BH-29 (6.5') (890-426-29), BH-30 (6.5') (890-426-30), BH-31 (6.5') (890-426-31), BH-32 (6.5') (890-426-32), BH-33 (6.5') (890-426-33), BH-34 (5') (890-426-34), BH-35 (5') (890-426-35), BH-36 (5') (890-426-36), BH-37 (6') (890-426-37), BH-38 (6') (890-426-38), BH-39 (6') (890-426-39), BH-40 (6') (890-426-40), BH-41 (6') (890-426-41), BH-42 (6') (890-426-42), BH-43 (6') (890-426-43), BH-44 (6') (890-426-44), BH-45 (6') (890-426-45), BH-46 (3.5') (890-426-46), BH-47 (3.5') (890-426-47), BH-48 (5') (890-426-48), BH-49 (5') (890-426-49), BH-50 (5') (890-426-50), BH-51 (5') (890-426-51), BH-52 (5') (890-426-52), BH-53 (5') (890-426-53), BH-54 (5') (890-426-54), BH-55 (5') (890-426-55), BH-56 (5') (890-426-56), BH-57 (5') (890-426-57), BH-58 (5') (890-426-58), BH-59 (5') (890-426-59), BH-60 (5') (890-426-60), BH-61 (5') (890-426-61), BH-62 (5') (890-426-62), BH-63 (5') (890-426-63), BH-64 (5') (890-426-64), BH-65 (5') (890-426-65), BH-66 (5') (890-426-66), BH-67 (5') (890-426-67), BH-68 (5') (890-426-68), BH-69 (5') (890-426-69), BH-70 (5') (890-426-70), BH-71 (5') (890-426-71), BH-72 (5') (890-426-72), BH-73 (5') (890-426-73), BH-74 (5') (890-426-74), BH-75 (5') (890-426-75), BH-76 (5') (890-426-76), BH-77 (5') (890-426-77), BH-78 (5') (890-426-78), BH-79 (5') (890-426-79), BH-80 (5') (890-426-80), BH-81 (5') (890-426-81), BH-82 (5') (890-426-82), BH-83 (5') (890-426-83), BH-84 (5') (890-426-84), BH-85 (5') (890-426-85), BH-86 (7') (890-426-86), BH-87 (7') (890-426-87), BH-88 (7') (890-426-88), BH-89 (7') (890-426-89), BH-90 (7') (890-426-90), BH-91 (7') (890-426-91), BH-92 (7') (890-426-92), BH-93 (7') (890-426-93), BH-94 (7') (890-426-94), BH-95 (5') (890-426-95), BH-96 (5') (890-426-96), BH-97 (5') (890-426-97), BH-98 (5') (890-426-98), BH-99 (5') (890-426-99), BH-100 (5') (890-426-100), BH-101 (5') (890-426-101), BH-102 (5') (890-426-102), BH-103 (5') (890-426-103), SW-1 (3.5') (890-426-104), SW-2 (3.5') (890-426-105), SW-3 (3.5') (890-426-106), SW-4 (5') (890-426-107), SW-5 (5') (890-426-108), SW-6 (5') (890-426-109), SW-7 (6') (890-426-110), SW-8 (6.5') (890-426-111), SW-9 (5') (890-426-112), SW-10 (5') (890-426-113), SW-11 (5') (890-426-114), SW-12 (5') (890-426-115), SW-13 (6.5') (890-426-116), SW-14 (5') (890-426-117), SW-15 (5') (890-426-118), SW-16 (5') (890-426-119), SW-17 (5') (890-426-120), SW-18 (5') (890-426-121), SW-19 (7') (890-426-122), SW-20 (7') (890-426-123), SW-21 (7') (890-426-124), SW-22 (7') (890-426-125), SW-23 (5') (890-426-126), SW-24 (5') (890-426-127), SW-25 (5') (890-426-128), SW-26 (5') (890-426-129), SW-27 (5') (890-426-130) and SW-28 (6') (890-426-131).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-917 and analytical batch 880-949 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: Internal standard responses were outside of acceptance limits for the following samples: BH-24 (6') (890-426-24), BH-28 (6.5') (890-426-28), BH-36 (5') (890-426-36), BH-41 (6') (890-426-41), BH-46 (3.5') (890-426-46) and BH-48 (5') (890-426-48). The sample(s) shows evidence of matrix interference.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-52 (5') (890-426-52), BH-62 (5') (890-426-62), BH-70 (5') (890-426-70), BH-72 (5') (890-426-72) and BH-73 (5') (890-426-73). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW-22 (7') (890-426-125). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

GC Semi VOA

Method 8015MOD_NM: The method blank for preparation batch 880-982 contained Gasoline Range Organics (GRO)-C6-C10 above the

Case Narrative

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Job ID: 890-426-1 (Continued)

Laboratory: Eurofins Xenco, Carlsbad (Continued)

reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-994 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: SW-8 (6.5') (890-426-111), SW-9 (5') (890-426-112), SW-10 (5') (890-426-113), SW-11 (5') (890-426-114), SW-12 (5') (890-426-115), SW-13 (6.5') (890-426-116), SW-14 (5') (890-426-117), SW-15 (5') (890-426-118), SW-16 (5') (890-426-119), SW-17 (5') (890-426-120), (CCV 880-994/3) and (CCV 880-994/30).

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-994 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: BH-101 (5') (890-426-101), BH-102 (5') (890-426-102), BH-103 (5') (890-426-103), SW-1 (3.5') (890-426-104), SW-2 (3.5') (890-426-105), SW-3 (3.5') (890-426-106), SW-4 (5') (890-426-107), SW-5 (5') (890-426-108), SW-6 (5') (890-426-109) and SW-7 (6') (890-426-110).

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-1 (3.5')

Lab Sample ID: 890-426-1

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 11:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 11:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 11:56	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 11:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:03	03/27/21 11:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:03	03/27/21 11:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 11:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/26/21 15:03	03/27/21 11:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:03	03/27/21 11:56	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		03/26/21 09:19	03/26/21 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 14:02	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/26/21 09:19	03/26/21 14:02	1
o-Terphenyl	73		70 - 130	03/26/21 09:19	03/26/21 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97		mg/Kg			03/31/21 09:26	1

Client Sample ID: BH-2 (3.5')

Lab Sample ID: 890-426-2

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:03	03/27/21 13:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:23	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 13:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 13:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/26/21 15:03	03/27/21 13:23	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/26/21 15:03	03/27/21 13:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-2 (3.5')

Lab Sample ID: 890-426-2

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:06	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/26/21 09:19	03/26/21 15:06	1
o-Terphenyl	76		70 - 130	03/26/21 09:19	03/26/21 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.6		4.99		mg/Kg			03/31/21 09:31	1

Client Sample ID: BH-3 (3.5')

Lab Sample ID: 890-426-3

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:03	03/27/21 13:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:44	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 13:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 13:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/26/21 15:03	03/27/21 13:44	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/26/21 15:03	03/27/21 13:44	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		03/26/21 09:19	03/26/21 15:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:27	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	03/26/21 09:19	03/26/21 15:27	1
o-Terphenyl	77		70 - 130	03/26/21 09:19	03/26/21 15:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.1		4.99		mg/Kg			03/31/21 09:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-4 (3.5')

Lab Sample ID: 890-426-4

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 14:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:05	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:03	03/27/21 14:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:03	03/27/21 14:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/26/21 15:03	03/27/21 14:05	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/26/21 15:03	03/27/21 14:05	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		03/26/21 09:19	03/26/21 15:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 15:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 15:48	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/26/21 09:19	03/26/21 15:48	1
o-Terphenyl	78		70 - 130	03/26/21 09:19	03/26/21 15:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.6		4.96		mg/Kg			03/31/21 09:41	1

Client Sample ID: BH-5 (3.5')

Lab Sample ID: 890-426-5

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 14:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 14:25	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 14:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:03	03/27/21 14:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:03	03/27/21 14:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/26/21 15:03	03/27/21 14:25	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/26/21 15:03	03/27/21 14:25	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-5 (3.5')

Lab Sample ID: 890-426-5

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:09	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/26/21 09:19	03/26/21 16:09	1
o-Terphenyl	79		70 - 130	03/26/21 09:19	03/26/21 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.0		4.95		mg/Kg			03/31/21 10:24	1

Client Sample ID: BH-6 (3.5')

Lab Sample ID: 890-426-6

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 14:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:46	1
Total BTEX	0.00642		0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:46	1
Xylenes, Total	0.00642		0.00398		mg/Kg		03/26/21 15:03	03/27/21 14:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:03	03/27/21 14:46	1
o-Xylene	0.00642		0.00199		mg/Kg		03/26/21 15:03	03/27/21 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	800	S1+	70 - 130	03/26/21 15:03	03/27/21 14:46	1
1,4-Difluorobenzene (Surr)	425	S1+	70 - 130	03/26/21 15:03	03/27/21 14:46	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	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:31	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	03/26/21 09:19	03/26/21 16:31	1
o-Terphenyl	74		70 - 130	03/26/21 09:19	03/26/21 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.6		5.02		mg/Kg			03/31/21 10:29	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-7 (3.5')

Lab Sample ID: 890-426-7

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 15:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:07	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:03	03/27/21 15:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:03	03/27/21 15:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/26/21 15:03	03/27/21 15:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:03	03/27/21 15:07	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		03/26/21 09:19	03/26/21 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 16:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 16:52	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/26/21 09:19	03/26/21 16:52	1
o-Terphenyl	80		70 - 130	03/26/21 09:19	03/26/21 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.3		5.01		mg/Kg			03/31/21 13:54	1

Client Sample ID: BH-8 (3.5')

Lab Sample ID: 890-426-8

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 15:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:28	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:03	03/27/21 15:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:03	03/27/21 15:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/26/21 15:03	03/27/21 15:28	1
1,4-Difluorobenzene (Surr)	124		70 - 130	03/26/21 15:03	03/27/21 15:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-8 (3.5')

Lab Sample ID: 890-426-8

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 17:13	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/26/21 09:19	03/26/21 17:13	1
o-Terphenyl	76		70 - 130	03/26/21 09:19	03/26/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72.7		4.98		mg/Kg			03/31/21 14:09	1

Client Sample ID: BH-9 (3.5')

Lab Sample ID: 890-426-9

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 15:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:49	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:03	03/27/21 15:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:03	03/27/21 15:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:03	03/27/21 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:03	03/27/21 15:49	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:03	03/27/21 15:49	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	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:34	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:34	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:34	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/26/21 09:19	03/26/21 17:34	1
o-Terphenyl	78		70 - 130	03/26/21 09:19	03/26/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.2		4.96		mg/Kg			03/31/21 14:15	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-10 (3.5')

Lab Sample ID: 890-426-10

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:03	03/27/21 16:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:03	03/27/21 16:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:03	03/27/21 16:10	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:03	03/27/21 16:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:03	03/27/21 16:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:03	03/27/21 16:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:03	03/27/21 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/26/21 15:03	03/27/21 16:10	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:03	03/27/21 16:10	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	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:56	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:56	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/26/21 09:19	03/26/21 17:56	1
o-Terphenyl	79		70 - 130	03/26/21 09:19	03/26/21 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		4.96		mg/Kg			03/31/21 14:20	1

Client Sample ID: BH-11 (5')

Lab Sample ID: 890-426-11

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:03	03/27/21 16:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 16:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 16:30	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 16:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 16:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:03	03/27/21 16:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:03	03/27/21 16:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:03	03/27/21 16:30	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/26/21 15:03	03/27/21 16:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-11 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-11

Matrix: Solid

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		03/26/21 09:19	03/26/21 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 18:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 18:46	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/26/21 09:19	03/26/21 18:46	1
o-Terphenyl	75		70 - 130	03/26/21 09:19	03/26/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.8		4.97		mg/Kg			03/31/21 14:25	1

Client Sample ID: BH-12 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-12

Matrix: Solid

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		03/26/21 15:09	03/27/21 18:02	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:09	03/27/21 18:02	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:09	03/27/21 18:02	1
Total BTEX	0.0266	F2 F1	0.00200		mg/Kg		03/26/21 15:09	03/27/21 18:02	1
Xylenes, Total	0.0266		0.00399		mg/Kg		03/26/21 15:09	03/27/21 18:02	1
m-Xylene & p-Xylene	0.0224		0.00399		mg/Kg		03/26/21 15:09	03/27/21 18:02	1
o-Xylene	0.00419		0.00200		mg/Kg		03/26/21 15:09	03/27/21 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/26/21 15:09	03/27/21 18:02	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:09	03/27/21 18:02	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		03/26/21 09:19	03/26/21 19:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 19:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 19:08	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/26/21 09:19	03/26/21 19:08	1
o-Terphenyl	79		70 - 130	03/26/21 09:19	03/26/21 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.0		5.03		mg/Kg			03/31/21 14:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-13 (5')

Lab Sample ID: 890-426-13

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:09	03/27/21 18:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 18:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 18:22	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 18:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:09	03/27/21 18:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:09	03/27/21 18:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/26/21 15:09	03/27/21 18:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:09	03/27/21 18:22	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		03/26/21 09:19	03/26/21 19:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 19:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 19:29	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/26/21 09:19	03/26/21 19:29	1
o-Terphenyl	85		70 - 130	03/26/21 09:19	03/26/21 19:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.8		5.04		mg/Kg			03/31/21 14:47	1

Client Sample ID: BH-14 (5')

Lab Sample ID: 890-426-14

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:09	03/27/21 18:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 18:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 18:43	1
Total BTEX	0.0263		0.00199		mg/Kg		03/26/21 15:09	03/27/21 18:43	1
Xylenes, Total	0.0263		0.00398		mg/Kg		03/26/21 15:09	03/27/21 18:43	1
m-Xylene & p-Xylene	0.0221		0.00398		mg/Kg		03/26/21 15:09	03/27/21 18:43	1
o-Xylene	0.00421		0.00199		mg/Kg		03/26/21 15:09	03/27/21 18:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:09	03/27/21 18:43	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:09	03/27/21 18:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-14 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-14

Matrix: Solid

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		03/26/21 09:19	03/26/21 19:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 19:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 19:50	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/26/21 09:19	03/26/21 19:50	1
o-Terphenyl	84		70 - 130	03/26/21 09:19	03/26/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.0		4.99		mg/Kg			03/31/21 14:52	1

Client Sample ID: BH-15 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-15

Matrix: Solid

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		03/26/21 15:09	03/27/21 19:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 19:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 19:03	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 19:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 19:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:09	03/27/21 19:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:09	03/27/21 19:03	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		03/26/21 09:19	03/26/21 20:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:11	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/26/21 09:19	03/26/21 20:11	1
o-Terphenyl	89		70 - 130	03/26/21 09:19	03/26/21 20:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		4.96		mg/Kg			03/31/21 14:57	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-16 (5')

Lab Sample ID: 890-426-16

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:09	03/27/21 19:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 19:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 19:24	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 19:24	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/26/21 15:09	03/27/21 19:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/26/21 15:09	03/27/21 19:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:09	03/27/21 19:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/26/21 15:09	03/27/21 19:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:09	03/27/21 19:24	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	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 20:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 20:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 20:32	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:19	03/26/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/26/21 09:19	03/26/21 20:32	1
o-Terphenyl	80		70 - 130	03/26/21 09:19	03/26/21 20:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	203		4.95		mg/Kg			03/31/21 15:02	1

Client Sample ID: BH-17 (5')

Lab Sample ID: 890-426-17

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:09	03/27/21 19:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 19:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 19:44	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 19:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 19:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:09	03/27/21 19:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:09	03/27/21 19:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-17 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-17

Matrix: Solid

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		03/26/21 09:19	03/26/21 20:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/26/21 09:19	03/26/21 20:53	1
o-Terphenyl	83		70 - 130	03/26/21 09:19	03/26/21 20:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		4.95		mg/Kg			03/31/21 15:08	1

Client Sample ID: BH-18 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-18

Matrix: Solid

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		03/26/21 15:09	03/27/21 20:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 20:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 20:04	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 20:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 20:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 20:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 20:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:09	03/27/21 20:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:09	03/27/21 20:04	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		03/26/21 09:19	03/26/21 21:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 21:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 21:14	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:19	03/26/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/26/21 09:19	03/26/21 21:14	1
o-Terphenyl	84		70 - 130	03/26/21 09:19	03/26/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.03		mg/Kg			03/31/21 15:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-19 (5')

Lab Sample ID: 890-426-19

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:09	03/27/21 20:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
Total BTEX	0.00885		0.00202		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
Xylenes, Total	0.00885		0.00403		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
m-Xylene & p-Xylene	0.00885		0.00403		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/26/21 15:09	03/27/21 20:25	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/26/21 15:09	03/27/21 20:25	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		03/26/21 09:19	03/26/21 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 21:36	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				03/26/21 09:19	03/26/21 21:36	1
o-Terphenyl	93		70 - 130				03/26/21 09:19	03/26/21 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.7		5.03		mg/Kg			03/31/21 15:29	1

Client Sample ID: BH-20 (6')

Lab Sample ID: 890-426-20

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 20:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
Total BTEX	0.00502		0.00200		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
Xylenes, Total	0.00502		0.00399		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
m-Xylene & p-Xylene	0.00502		0.00399		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/26/21 15:09	03/27/21 20:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/26/21 15:09	03/27/21 20:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-20 (6')

Lab Sample ID: 890-426-20

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 09:19	03/26/21 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 21:58	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:19	03/26/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/26/21 09:19	03/26/21 21:58	1
o-Terphenyl	84		70 - 130	03/26/21 09:19	03/26/21 21:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.8		5.01		mg/Kg			03/31/21 15:45	1

Client Sample ID: BH-21 (6')

Lab Sample ID: 890-426-21

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 21:06	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 21:06	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 21:06	1
Total BTEX	0.0167		0.00202		mg/Kg		03/26/21 15:09	03/27/21 21:06	1
Xylenes, Total	0.0167		0.00403		mg/Kg		03/26/21 15:09	03/27/21 21:06	1
m-Xylene & p-Xylene	0.0139		0.00403		mg/Kg		03/26/21 15:09	03/27/21 21:06	1
o-Xylene	0.00282		0.00202		mg/Kg		03/26/21 15:09	03/27/21 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:09	03/27/21 21:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/26/21 15:09	03/27/21 21:06	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		03/26/21 09:37	03/26/21 14:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 14:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 14:02	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	03/26/21 09:37	03/26/21 14:02	1
o-Terphenyl	67	S1-	70 - 130	03/26/21 09:37	03/26/21 14:02	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.00		mg/Kg			03/31/21 15:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-22 (6')

Lab Sample ID: 890-426-22

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 22:21	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
Total BTEX	0.00932		0.00202		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
Xylenes, Total	0.00932		0.00404		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
m-Xylene & p-Xylene	0.00932		0.00404		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/27/21 22:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				03/26/21 15:09	03/27/21 22:21	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/26/21 15:09	03/27/21 22:21	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	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 15:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 15:06	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 15:06	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				03/26/21 09:37	03/26/21 15:06	1
o-Terphenyl	74		70 - 130				03/26/21 09:37	03/26/21 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.5		5.00		mg/Kg			03/31/21 15:56	1

Client Sample ID: BH-23 (6')

Lab Sample ID: 890-426-23

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
Total BTEX	0.00863		0.00200		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
Xylenes, Total	0.00863		0.00401		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
m-Xylene & p-Xylene	0.00863		0.00401		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				03/26/21 15:09	03/27/21 22:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130				03/26/21 15:09	03/27/21 22:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-23 (6')

Lab Sample ID: 890-426-23

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 09:37	03/26/21 15:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 15:27	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 15:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	03/26/21 09:37	03/26/21 15:27	1
o-Terphenyl	76		70 - 130	03/26/21 09:37	03/26/21 15:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.6		4.99		mg/Kg			03/31/21 16:01	1

Client Sample ID: BH-24 (6')

Lab Sample ID: 890-426-24

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 23:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:02	1
Total BTEX	0.00921		0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:02	1
Xylenes, Total	0.00921		0.00401		mg/Kg		03/26/21 15:09	03/27/21 23:02	1
m-Xylene & p-Xylene	0.00921		0.00401		mg/Kg		03/26/21 15:09	03/27/21 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/26/21 15:09	03/27/21 23:02	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/26/21 15:09	03/27/21 23:02	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		03/26/21 09:37	03/26/21 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 15:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 15:48	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	03/26/21 09:37	03/26/21 15:48	1
o-Terphenyl	62	S1-	70 - 130	03/26/21 09:37	03/26/21 15:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.3		5.04		mg/Kg			03/31/21 16:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-25 (6')

Lab Sample ID: 890-426-25

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 23:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 23:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 23:22	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 23:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 23:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/27/21 23:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/27/21 23:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:09	03/27/21 23:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:09	03/27/21 23:22	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		03/26/21 09:37	03/26/21 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 16:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 16:09	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	03/26/21 09:37	03/26/21 16:09	1
o-Terphenyl	83		70 - 130	03/26/21 09:37	03/26/21 16:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.0		5.04		mg/Kg			03/31/21 16:12	1

Client Sample ID: BH-26 (6')

Lab Sample ID: 890-426-26

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:09	03/27/21 23:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:43	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 23:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 23:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:09	03/27/21 23:43	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:09	03/27/21 23:43	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-26 (6')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 6

Lab Sample ID: 890-426-26

Matrix: Solid

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		03/26/21 09:37	03/26/21 16:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:31	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	03/26/21 09:37	03/26/21 16:31	1
o-Terphenyl	77		70 - 130	03/26/21 09:37	03/26/21 16:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.8		5.04		mg/Kg			03/31/21 16:17	1

Client Sample ID: BH-27 (6')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 6

Lab Sample ID: 890-426-27

Matrix: Solid

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		03/26/21 15:09	03/28/21 00:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 00:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 00:03	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 00:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 00:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 00:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:09	03/28/21 00:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:09	03/28/21 00:03	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		03/26/21 09:37	03/26/21 16:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:52	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 16:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	03/26/21 09:37	03/26/21 16:52	1
o-Terphenyl	89		70 - 130	03/26/21 09:37	03/26/21 16:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.3	F1	4.98		mg/Kg			03/31/21 09:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-28 (6.5')

Lab Sample ID: 890-426-28

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:09	03/28/21 00:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/28/21 00:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/28/21 00:24	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/28/21 00:24	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:09	03/28/21 00:24	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:09	03/28/21 00:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:09	03/28/21 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/26/21 15:09	03/28/21 00:24	1
1,4-Difluorobenzene (Surr)	91		70 - 130	03/26/21 15:09	03/28/21 00:24	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	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:13	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	03/26/21 09:37	03/26/21 17:13	1
o-Terphenyl	75		70 - 130	03/26/21 09:37	03/26/21 17:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		5.04		mg/Kg			03/31/21 09:37	1

Client Sample ID: BH-29 (6.5')

Lab Sample ID: 890-426-29

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:09	03/28/21 00:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/28/21 00:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/28/21 00:44	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/28/21 00:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:09	03/28/21 00:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:09	03/28/21 00:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/28/21 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:09	03/28/21 00:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:09	03/28/21 00:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-29 (6.5')

Lab Sample ID: 890-426-29

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 09:37	03/26/21 17:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:34	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/26/21 09:37	03/26/21 17:34	1
o-Terphenyl	73		70 - 130	03/26/21 09:37	03/26/21 17:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		5.05		mg/Kg			03/31/21 09:42	1

Client Sample ID: BH-30 (6.5')

Lab Sample ID: 890-426-30

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:09	03/28/21 01:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:04	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 01:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 01:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:09	03/28/21 01:04	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:09	03/28/21 01:04	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		03/26/21 09:37	03/26/21 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 17:56	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	03/26/21 09:37	03/26/21 17:56	1
o-Terphenyl	69	S1-	70 - 130	03/26/21 09:37	03/26/21 17:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		4.98		mg/Kg			03/31/21 09:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-31 (6.5')

Lab Sample ID: 890-426-31

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:09	03/28/21 01:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:25	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 01:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:09	03/28/21 01:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:09	03/28/21 01:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:09	03/28/21 01:25	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:09	03/28/21 01:25	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		03/26/21 09:37	03/26/21 18:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 18:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 18:46	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/26/21 09:37	03/26/21 18:46	1
o-Terphenyl	75		70 - 130	03/26/21 09:37	03/26/21 18:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.9		4.95		mg/Kg			03/31/21 09:52	1

Client Sample ID: BH-32 (6.5')

Lab Sample ID: 890-426-32

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
Total BTEX	<0.00199	U F2 F1	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 05:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:13	03/28/21 05:02	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:13	03/28/21 05:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-32 (6.5')

Lab Sample ID: 890-426-32

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 09:37	03/26/21 19:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 19:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 19:08	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	03/26/21 09:37	03/26/21 19:08	1
o-Terphenyl	68	S1-	70 - 130	03/26/21 09:37	03/26/21 19:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.5		4.95		mg/Kg			03/31/21 10:07	1

Client Sample ID: BH-33 (6.5')

Lab Sample ID: 890-426-33

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:13	03/28/21 05:23	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 05:23	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 05:23	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 05:23	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 05:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 05:23	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 05:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/26/21 15:13	03/28/21 05:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:13	03/28/21 05:23	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		03/26/21 09:37	03/26/21 19:29	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/26/21 09:37	03/26/21 19:29	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/26/21 09:37	03/26/21 19:29	1
Total TPH	<49.7	U	49.7		mg/Kg		03/26/21 09:37	03/26/21 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	03/26/21 09:37	03/26/21 19:29	1
o-Terphenyl	71		70 - 130	03/26/21 09:37	03/26/21 19:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		4.96		mg/Kg			03/31/21 10:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-34 (5')

Lab Sample ID: 890-426-34

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 05:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:43	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 05:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 05:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:13	03/28/21 05:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/26/21 15:13	03/28/21 05:43	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	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 19:50	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 19:50	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 19:50	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	03/26/21 09:37	03/26/21 19:50	1
o-Terphenyl	82		70 - 130	03/26/21 09:37	03/26/21 19:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	517		5.05		mg/Kg			04/04/21 03:19	1

Client Sample ID: BH-35 (5')

Lab Sample ID: 890-426-35

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 06:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 06:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 06:04	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 06:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:13	03/28/21 06:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:13	03/28/21 06:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:13	03/28/21 06:04	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:13	03/28/21 06:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-35 (5')

Lab Sample ID: 890-426-35

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 09:37	03/26/21 20:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:11	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	03/26/21 09:37	03/26/21 20:11	1
o-Terphenyl	78		70 - 130	03/26/21 09:37	03/26/21 20:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	551		4.97		mg/Kg			03/31/21 10:22	1

Client Sample ID: BH-36 (5')

Lab Sample ID: 890-426-36

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 06:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:24	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:13	03/28/21 06:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:13	03/28/21 06:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/26/21 15:13	03/28/21 06:24	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/26/21 15:13	03/28/21 06:24	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	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 20:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 20:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 20:32	1
Total TPH	<50.1	U	50.1		mg/Kg		03/26/21 09:37	03/26/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	03/26/21 09:37	03/26/21 20:32	1
o-Terphenyl	72		70 - 130	03/26/21 09:37	03/26/21 20:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.0		4.98		mg/Kg			03/31/21 10:27	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-37 (6')

Lab Sample ID: 890-426-37

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 06:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:45	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:13	03/28/21 06:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:13	03/28/21 06:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:13	03/28/21 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/26/21 15:13	03/28/21 06:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/26/21 15:13	03/28/21 06:45	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	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	03/26/21 09:37	03/26/21 20:53	1
o-Terphenyl	108		70 - 130	03/26/21 09:37	03/26/21 20:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249	F1	5.05		mg/Kg			03/31/21 10:32	1

Client Sample ID: BH-38 (6')

Lab Sample ID: 890-426-38

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 07:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 07:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 07:05	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 07:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 07:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 07:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 07:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:13	03/28/21 07:05	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/26/21 15:13	03/28/21 07:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-38 (6')

Lab Sample ID: 890-426-38

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 09:37	03/26/21 21:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 21:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 21:14	1
Total TPH	<49.8	U	49.8		mg/Kg		03/26/21 09:37	03/26/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	03/26/21 09:37	03/26/21 21:14	1
o-Terphenyl	70		70 - 130	03/26/21 09:37	03/26/21 21:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.4		4.98		mg/Kg			03/31/21 10:47	1

Client Sample ID: BH-39 (6')

Lab Sample ID: 890-426-39

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 07:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 07:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 07:26	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 07:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/26/21 15:13	03/28/21 07:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/26/21 15:13	03/28/21 07:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 07:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:13	03/28/21 07:26	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:13	03/28/21 07:26	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	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 21:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 21:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 21:36	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	03/26/21 09:37	03/26/21 21:36	1
o-Terphenyl	69	S1-	70 - 130	03/26/21 09:37	03/26/21 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.3		4.97		mg/Kg			03/31/21 10:52	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-40 (6')

Lab Sample ID: 890-426-40

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 07:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 07:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 07:46	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 07:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 07:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 07:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 07:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:13	03/28/21 07:46	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:13	03/28/21 07:46	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	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 21:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 21:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 21:58	1
Total TPH	<49.9	U	49.9		mg/Kg		03/26/21 09:37	03/26/21 21:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130	03/26/21 09:37	03/26/21 21:58	1
o-Terphenyl	47	S1-	70 - 130	03/26/21 09:37	03/26/21 21:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.1		4.95		mg/Kg			03/31/21 11:07	1

Client Sample ID: BH-41 (6')

Lab Sample ID: 890-426-41

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 08:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 08:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 08:06	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 08:06	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 08:06	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 08:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 08:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/26/21 15:13	03/28/21 08:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/26/21 15:13	03/28/21 08:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-41 (6')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 6

Lab Sample ID: 890-426-41

Matrix: Solid

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		03/27/21 10:06	03/28/21 15:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 15:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 15:43	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/27/21 10:06	03/28/21 15:43	1
o-Terphenyl	80		70 - 130	03/27/21 10:06	03/28/21 15:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.7		4.95		mg/Kg			03/31/21 11:12	1

Client Sample ID: BH-42 (6')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 6

Lab Sample ID: 890-426-42

Matrix: Solid

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		03/26/21 15:13	03/28/21 09:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:22	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:13	03/28/21 09:22	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:13	03/28/21 09:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/26/21 15:13	03/28/21 09:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:13	03/28/21 09:22	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		03/27/21 10:06	03/28/21 16:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 16:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 16:47	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/27/21 10:06	03/28/21 16:47	1
o-Terphenyl	86		70 - 130	03/27/21 10:06	03/28/21 16:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		5.00		mg/Kg			03/31/21 11:17	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-43 (6')

Lab Sample ID: 890-426-43

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 09:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:42	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:42	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:13	03/28/21 09:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:13	03/28/21 09:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 09:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/26/21 15:13	03/28/21 09:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:13	03/28/21 09:42	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		03/27/21 10:06	03/28/21 17:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/27/21 10:06	03/28/21 17:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/27/21 10:06	03/28/21 17:08	1
Total TPH	<49.7	U	49.7		mg/Kg		03/27/21 10:06	03/28/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/27/21 10:06	03/28/21 17:08	1
o-Terphenyl	83		70 - 130	03/27/21 10:06	03/28/21 17:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.7		5.00		mg/Kg			03/31/21 11:22	1

Client Sample ID: BH-44 (6')

Lab Sample ID: 890-426-44

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 10:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:03	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 10:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 10:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:13	03/28/21 10:03	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:13	03/28/21 10:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-44 (6')

Lab Sample ID: 890-426-44

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/27/21 10:06	03/28/21 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 17:30	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/27/21 10:06	03/28/21 17:30	1
o-Terphenyl	89		70 - 130	03/27/21 10:06	03/28/21 17:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	168		5.00		mg/Kg			03/31/21 11:27	1

Client Sample ID: BH-45 (6')

Lab Sample ID: 890-426-45

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:13	03/28/21 10:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 10:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 10:23	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 10:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 10:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 10:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:13	03/28/21 10:23	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:13	03/28/21 10:23	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		03/27/21 10:06	03/28/21 17:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 17:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 17:50	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 17:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/27/21 10:06	03/28/21 17:50	1
o-Terphenyl	86		70 - 130	03/27/21 10:06	03/28/21 17:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.96		mg/Kg			03/31/21 11:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-46 (3.5')

Lab Sample ID: 890-426-46

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:13	03/28/21 10:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:44	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 10:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:13	03/28/21 10:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:13	03/28/21 10:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:13	03/28/21 10:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/26/21 15:13	03/28/21 10:44	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		03/27/21 10:06	03/28/21 18:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:12	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/27/21 10:06	03/28/21 18:12	1
o-Terphenyl	86		70 - 130	03/27/21 10:06	03/28/21 18:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		4.98		mg/Kg			03/31/21 11:37	1

Client Sample ID: BH-47 (3.5')

Lab Sample ID: 890-426-47

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 11:04	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:04	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:04	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:04	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/26/21 15:13	03/28/21 11:04	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/26/21 15:13	03/28/21 11:04	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:13	03/28/21 11:04	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:13	03/28/21 11:04	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-47 (3.5')

Lab Sample ID: 890-426-47

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:06	03/28/21 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:33	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/27/21 10:06	03/28/21 18:33	1
o-Terphenyl	91		70 - 130	03/27/21 10:06	03/28/21 18:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.5	F1	5.05		mg/Kg			03/30/21 02:52	1

Client Sample ID: BH-48 (5')

Lab Sample ID: 890-426-48

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 11:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:24	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 11:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:13	03/28/21 11:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:13	03/28/21 11:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	03/26/21 15:13	03/28/21 11:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130	03/26/21 15:13	03/28/21 11:24	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	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 18:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 18:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 18:54	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	03/27/21 10:06	03/28/21 18:54	1
o-Terphenyl	93		70 - 130	03/27/21 10:06	03/28/21 18:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		4.98		mg/Kg			03/30/21 03:08	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-49 (5')

Lab Sample ID: 890-426-49

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 11:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 11:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 11:45	1
Total BTEX	0.0275		0.00202		mg/Kg		03/26/21 15:13	03/28/21 11:45	1
Xylenes, Total	0.0275		0.00403		mg/Kg		03/26/21 15:13	03/28/21 11:45	1
m-Xylene & p-Xylene	0.0228		0.00403		mg/Kg		03/26/21 15:13	03/28/21 11:45	1
o-Xylene	0.00472		0.00202		mg/Kg		03/26/21 15:13	03/28/21 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:13	03/28/21 11:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:13	03/28/21 11:45	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	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 19:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 19:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 19:15	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/27/21 10:06	03/28/21 19:15	1
o-Terphenyl	84		70 - 130	03/27/21 10:06	03/28/21 19:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		4.96		mg/Kg			03/30/21 03:13	1

Client Sample ID: BH-50 (5')

Lab Sample ID: 890-426-50

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 12:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 12:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 12:05	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 12:05	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:13	03/28/21 12:05	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:13	03/28/21 12:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 12:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:13	03/28/21 12:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:13	03/28/21 12:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-50 (5')

Lab Sample ID: 890-426-50

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:06	03/28/21 19:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 19:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 19:37	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/27/21 10:06	03/28/21 19:37	1
o-Terphenyl	83		70 - 130	03/27/21 10:06	03/28/21 19:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		4.95		mg/Kg			03/30/21 03:18	1

Client Sample ID: BH-51 (5')

Lab Sample ID: 890-426-51

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:13	03/28/21 12:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 12:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 12:26	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 12:26	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:13	03/28/21 12:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:13	03/28/21 12:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:13	03/28/21 12:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/26/21 15:13	03/28/21 12:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:13	03/28/21 12:26	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	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 20:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 20:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 20:19	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/27/21 10:06	03/28/21 20:19	1
o-Terphenyl	96		70 - 130	03/27/21 10:06	03/28/21 20:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.5		5.04		mg/Kg			03/30/21 03:23	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-52 (5')

Lab Sample ID: 890-426-52

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 03:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:18	1
Total BTEX	0.00414		0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:18	1
Xylenes, Total	0.00414		0.00399		mg/Kg		03/26/21 15:17	03/28/21 03:18	1
m-Xylene & p-Xylene	0.00414		0.00399		mg/Kg		03/26/21 15:17	03/28/21 03:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/26/21 15:17	03/28/21 03:18	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/26/21 15:17	03/28/21 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	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 20:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 20:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 20:40	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/27/21 10:06	03/28/21 20:40	1
o-Terphenyl	89		70 - 130	03/27/21 10:06	03/28/21 20:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.9		5.02		mg/Kg			03/30/21 03:38	1

Client Sample ID: BH-53 (5')

Lab Sample ID: 890-426-53

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 03:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 03:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 03:38	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 03:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 03:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 03:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	03/26/21 15:17	03/28/21 03:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:17	03/28/21 03:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-53 (5')

Lab Sample ID: 890-426-53

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:06	03/28/21 21:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:01	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/21 10:06	03/28/21 21:01	1
o-Terphenyl	97		70 - 130	03/27/21 10:06	03/28/21 21:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.0		4.98		mg/Kg			03/30/21 03:43	1

Client Sample ID: BH-54 (5')

Lab Sample ID: 890-426-54

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 03:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:59	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 03:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 03:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:17	03/28/21 03:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/26/21 15:17	03/28/21 03:59	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		03/27/21 10:06	03/28/21 21:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 21:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 21:22	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 21:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/21 10:06	03/28/21 21:22	1
o-Terphenyl	96		70 - 130	03/27/21 10:06	03/28/21 21:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.78		5.00		mg/Kg			03/30/21 03:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-55 (5')

Lab Sample ID: 890-426-55

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 04:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:19	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:19	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:17	03/28/21 04:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:17	03/28/21 04:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	03/26/21 15:17	03/28/21 04:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:17	03/28/21 04:19	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		03/27/21 10:06	03/28/21 21:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:43	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/27/21 10:06	03/28/21 21:43	1
o-Terphenyl	87		70 - 130	03/27/21 10:06	03/28/21 21:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.60		5.00		mg/Kg			03/30/21 03:53	1

Client Sample ID: BH-56 (5')

Lab Sample ID: 890-426-56

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 04:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:40	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:40	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:17	03/28/21 04:40	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:17	03/28/21 04:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/26/21 15:17	03/28/21 04:40	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:17	03/28/21 04:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-56 (5')

Lab Sample ID: 890-426-56

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:06	03/28/21 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 22:04	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/27/21 10:06	03/28/21 22:04	1
o-Terphenyl	82		70 - 130	03/27/21 10:06	03/28/21 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.85		4.98		mg/Kg			03/30/21 03:58	1

Client Sample ID: BH-57 (5')

Lab Sample ID: 890-426-57

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 05:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:00	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:17	03/28/21 05:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:17	03/28/21 05:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/26/21 15:17	03/28/21 05:00	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:17	03/28/21 05:00	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		03/27/21 10:06	03/28/21 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:26	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	03/27/21 10:06	03/28/21 22:26	1
o-Terphenyl	100		70 - 130	03/27/21 10:06	03/28/21 22:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.28		4.97		mg/Kg			03/30/21 04:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-58 (5')

Lab Sample ID: 890-426-58

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 05:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 05:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 05:20	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 05:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 05:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 05:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/26/21 15:17	03/28/21 05:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:17	03/28/21 05:20	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		03/27/21 10:06	03/28/21 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:47	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/27/21 10:06	03/28/21 22:47	1
o-Terphenyl	94		70 - 130	03/27/21 10:06	03/28/21 22:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.62		4.95		mg/Kg			03/30/21 04:18	1

Client Sample ID: BH-59 (5')

Lab Sample ID: 890-426-59

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 05:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:41	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:41	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:17	03/28/21 05:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:17	03/28/21 05:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/26/21 15:17	03/28/21 05:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:17	03/28/21 05:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-59 (5')

Lab Sample ID: 890-426-59

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:06	03/28/21 23:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 23:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 23:08	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:06	03/28/21 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/27/21 10:06	03/28/21 23:08	1
o-Terphenyl	83		70 - 130	03/27/21 10:06	03/28/21 23:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.88		5.00		mg/Kg			03/30/21 04:23	1

Client Sample ID: BH-60 (5')

Lab Sample ID: 890-426-60

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 06:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 06:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 06:01	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 06:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:17	03/28/21 06:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:17	03/28/21 06:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/26/21 15:17	03/28/21 06:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:17	03/28/21 06:01	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		03/27/21 10:06	03/28/21 23:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 23:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 23:29	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:06	03/28/21 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/27/21 10:06	03/28/21 23:29	1
o-Terphenyl	93		70 - 130	03/27/21 10:06	03/28/21 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.71		4.96		mg/Kg			03/30/21 04:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-61 (5')

Lab Sample ID: 890-426-61

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 06:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 06:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 06:22	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 06:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:17	03/28/21 06:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:17	03/28/21 06:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:17	03/28/21 06:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:17	03/28/21 06:22	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 F1	49.9		mg/Kg		03/27/21 10:21	03/29/21 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 01:13	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/27/21 10:21	03/29/21 01:13	1
o-Terphenyl	85		70 - 130	03/27/21 10:21	03/29/21 01:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.05		5.04		mg/Kg			03/30/21 04:44	1

Client Sample ID: BH-62 (5')

Lab Sample ID: 890-426-62

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 07:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 07:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 07:44	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 07:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 07:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:17	03/28/21 07:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:17	03/28/21 07:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/26/21 15:17	03/28/21 07:44	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:17	03/28/21 07:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-62 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-62

Matrix: Solid

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		03/27/21 10:21	03/29/21 02:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 02:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 02:16	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/27/21 10:21	03/29/21 02:16	1
o-Terphenyl	91		70 - 130	03/27/21 10:21	03/29/21 02:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.05		4.98		mg/Kg			03/30/21 04:49	1

Client Sample ID: BH-63 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-63

Matrix: Solid

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		03/26/21 15:17	03/28/21 08:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 08:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 08:04	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 08:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 08:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 08:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 08:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:17	03/28/21 08:04	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:17	03/28/21 08:04	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		03/27/21 10:21	03/29/21 02:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/27/21 10:21	03/29/21 02:37	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/27/21 10:21	03/29/21 02:37	1
Total TPH	<49.7	U	49.7		mg/Kg		03/27/21 10:21	03/29/21 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/21 10:21	03/29/21 02:37	1
o-Terphenyl	100		70 - 130	03/27/21 10:21	03/29/21 02:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.86		5.02		mg/Kg			03/30/21 04:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-64 (5')

Lab Sample ID: 890-426-64

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 08:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 08:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 08:24	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 08:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:17	03/28/21 08:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:17	03/28/21 08:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:17	03/28/21 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:17	03/28/21 08:24	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:17	03/28/21 08:24	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	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 02:58	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 02:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/27/21 10:21	03/29/21 02:58	1
o-Terphenyl	97		70 - 130	03/27/21 10:21	03/29/21 02:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.35		5.03		mg/Kg			03/30/21 04:59	1

Client Sample ID: BH-65 (5')

Lab Sample ID: 890-426-65

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 08:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 08:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 08:45	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 08:45	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/26/21 15:17	03/28/21 08:45	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/26/21 15:17	03/28/21 08:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/26/21 15:17	03/28/21 08:45	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:17	03/28/21 08:45	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-65 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-65

Matrix: Solid

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		03/27/21 10:21	03/29/21 03:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 03:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 03:19	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 03:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/27/21 10:21	03/29/21 03:19	1
o-Terphenyl	87		70 - 130	03/27/21 10:21	03/29/21 03:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.19		4.98		mg/Kg			03/30/21 05:04	1

Client Sample ID: BH-66 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-66

Matrix: Solid

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		03/26/21 15:17	03/28/21 09:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:05	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 09:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 09:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:17	03/28/21 09:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:17	03/28/21 09:05	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		03/27/21 10:21	03/29/21 03:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 03:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 03:41	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/27/21 10:21	03/29/21 03:41	1
o-Terphenyl	89		70 - 130	03/27/21 10:21	03/29/21 03:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.98		4.95		mg/Kg			03/30/21 05:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-67 (5')

Lab Sample ID: 890-426-67

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 09:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 09:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 09:26	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 09:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:17	03/28/21 09:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:17	03/28/21 09:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:17	03/28/21 09:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:17	03/28/21 09:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:17	03/28/21 09:26	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	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:01	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	03/27/21 10:21	03/29/21 04:01	1
o-Terphenyl	94		70 - 130	03/27/21 10:21	03/29/21 04:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.65	F1	4.96		mg/Kg			03/30/21 05:50	1

Client Sample ID: BH-68 (5')

Lab Sample ID: 890-426-68

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 09:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:46	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:17	03/28/21 09:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:17	03/28/21 09:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 09:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:17	03/28/21 09:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:17	03/28/21 09:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-68 (5')

Lab Sample ID: 890-426-68

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:21	03/29/21 04:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 04:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 04:22	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/27/21 10:21	03/29/21 04:22	1
o-Terphenyl	93		70 - 130	03/27/21 10:21	03/29/21 04:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.02		mg/Kg			03/30/21 06:05	1

Client Sample ID: BH-69 (5')

Lab Sample ID: 890-426-69

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 10:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:07	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:17	03/28/21 10:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:17	03/28/21 10:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/26/21 15:17	03/28/21 10:07	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:17	03/28/21 10:07	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		03/27/21 10:21	03/29/21 04:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:43	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/27/21 10:21	03/29/21 04:43	1
o-Terphenyl	91		70 - 130	03/27/21 10:21	03/29/21 04:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		5.00		mg/Kg			03/30/21 06:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-70 (5')

Lab Sample ID: 890-426-70

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 10:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:27	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 10:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 10:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 10:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/26/21 15:17	03/28/21 10:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/26/21 15:17	03/28/21 10:27	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		03/27/21 10:21	03/29/21 05:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:04	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/27/21 10:21	03/29/21 05:04	1
o-Terphenyl	90		70 - 130	03/27/21 10:21	03/29/21 05:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.7		4.98		mg/Kg			03/30/21 06:15	1

Client Sample ID: BH-71 (5')

Lab Sample ID: 890-426-71

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:17	03/28/21 10:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 10:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 10:47	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 10:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:17	03/28/21 10:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:17	03/28/21 10:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:17	03/28/21 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/26/21 15:17	03/28/21 10:47	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:17	03/28/21 10:47	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-71 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-71

Matrix: Solid

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		03/27/21 10:21	03/29/21 05:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:46	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/27/21 10:21	03/29/21 05:46	1
o-Terphenyl	96		70 - 130	03/27/21 10:21	03/29/21 05:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.11		4.97		mg/Kg			03/30/21 06:20	1

Client Sample ID: BH-72 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-72

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F1 F2	0.00202		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
Ethylbenzene	<0.00202	U F1 F2	0.00202		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
Toluene	<0.00202	U F1 F2	0.00202		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
Total BTEX	<0.00202	U F1 F2	0.00202		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
Xylenes, Total	<0.00404	U F1 F2	0.00404		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.00404		mg/Kg		03/26/21 15:22	03/28/21 13:48	1
o-Xylene	<0.00202	U F1 F2	0.00202		mg/Kg		03/26/21 15:22	03/28/21 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:22	03/28/21 13:48	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:22	03/28/21 13:48	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		03/27/21 10:21	03/29/21 06:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 06:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 06:07	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	03/27/21 10:21	03/29/21 06:07	1
o-Terphenyl	93		70 - 130	03/27/21 10:21	03/29/21 06:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.04		4.95		mg/Kg			03/30/21 06:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-73 (5')

Lab Sample ID: 890-426-73

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 14:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
Total BTEX	0.00233		0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
o-Xylene	0.00233		0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				03/26/21 15:22	03/28/21 14:10	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/26/21 15:22	03/28/21 14:10	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		03/27/21 10:21	03/29/21 06:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 06:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 06:28	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 06:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/27/21 10:21	03/29/21 06:28	1
o-Terphenyl	103		70 - 130				03/27/21 10:21	03/29/21 06:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	132		4.95		mg/Kg			03/30/21 06:40	1

Client Sample ID: BH-74 (5')

Lab Sample ID: 890-426-74

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 14:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				03/26/21 15:22	03/28/21 14:30	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/26/21 15:22	03/28/21 14:30	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-74 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-74

Matrix: Solid

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	<50.1	U	50.1		mg/Kg		03/27/21 10:21	03/29/21 06:49	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/27/21 10:21	03/29/21 06:49	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/27/21 10:21	03/29/21 06:49	1
Total TPH	<50.1	U	50.1		mg/Kg		03/27/21 10:21	03/29/21 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130	03/27/21 10:21	03/29/21 06:49	1
o-Terphenyl	103		70 - 130	03/27/21 10:21	03/29/21 06:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.75		5.04		mg/Kg			03/30/21 06:45	1

Client Sample ID: BH-75 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-75

Matrix: Solid

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		03/26/21 15:22	03/28/21 14:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 14:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 14:51	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 14:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 14:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 14:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:22	03/28/21 14:51	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:22	03/28/21 14:51	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		03/27/21 10:21	03/29/21 07:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 07:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 07:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/27/21 10:21	03/29/21 07:10	1
o-Terphenyl	91		70 - 130	03/27/21 10:21	03/29/21 07:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.56		4.98		mg/Kg			03/30/21 06:50	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-76 (5')

Lab Sample ID: 890-426-76

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 15:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
Total BTEX	0.00529		0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
Xylenes, Total	0.00529		0.00399		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
m-Xylene & p-Xylene	0.00529		0.00399		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/26/21 15:22	03/28/21 15:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130				03/26/21 15:22	03/28/21 15:11	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	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:32	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/27/21 10:21	03/29/21 07:32	1
o-Terphenyl	89		70 - 130				03/27/21 10:21	03/29/21 07:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6		5.03		mg/Kg			03/30/21 06:55	1

Client Sample ID: BH-77 (5')

Lab Sample ID: 890-426-77

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 15:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				03/26/21 15:22	03/28/21 15:32	1
1,4-Difluorobenzene (Surr)	100		70 - 130				03/26/21 15:22	03/28/21 15:32	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-77 (5')

Lab Sample ID: 890-426-77

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:21	03/29/21 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/27/21 10:21	03/29/21 07:53	1
o-Terphenyl	95		70 - 130	03/27/21 10:21	03/29/21 07:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.4		5.00		mg/Kg			03/30/21 07:00	1

Client Sample ID: BH-78 (5')

Lab Sample ID: 890-426-78

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 15:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:52	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 15:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 15:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	03/26/21 15:22	03/28/21 15:52	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:22	03/28/21 15:52	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	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 08:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 08:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 08:15	1
Total TPH	<49.9	U	49.9		mg/Kg		03/27/21 10:21	03/29/21 08:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/27/21 10:21	03/29/21 08:15	1
o-Terphenyl	88		70 - 130	03/27/21 10:21	03/29/21 08:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		4.98		mg/Kg			03/30/21 07:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-79 (5')

Lab Sample ID: 890-426-79

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 16:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:13	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:22	03/28/21 16:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:22	03/28/21 16:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:22	03/28/21 16:13	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:22	03/28/21 16:13	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	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 08:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 08:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 08:36	1
Total TPH	<49.8	U	49.8		mg/Kg		03/27/21 10:21	03/29/21 08:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	03/27/21 10:21	03/29/21 08:36	1
o-Terphenyl	96		70 - 130	03/27/21 10:21	03/29/21 08:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.4		4.94		mg/Kg			03/30/21 07:21	1

Client Sample ID: BH-80 (5')

Lab Sample ID: 890-426-80

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 16:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:33	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:22	03/28/21 16:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:22	03/28/21 16:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:22	03/28/21 16:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:22	03/28/21 16:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-80 (5')

Lab Sample ID: 890-426-80

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/27/21 10:21	03/29/21 08:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 08:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 08:57	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 08:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/27/21 10:21	03/29/21 08:57	1
o-Terphenyl	95		70 - 130	03/27/21 10:21	03/29/21 08:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.2		4.95		mg/Kg			03/30/21 07:36	1

Client Sample ID: BH-81 (5')

Lab Sample ID: 890-426-81

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 16:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 16:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 16:54	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 16:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 16:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 16:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 16:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:22	03/28/21 16:54	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:22	03/28/21 16:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 13:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 13:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 13:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/29/21 08:38	03/29/21 13:10	1
o-Terphenyl	93		70 - 130	03/29/21 08:38	03/29/21 13:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.9		4.99		mg/Kg			03/30/21 07:41	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-82 (5')

Lab Sample ID: 890-426-82

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 18:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 18:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 18:15	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 18:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 18:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 18:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/26/21 15:22	03/28/21 18:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:22	03/28/21 18:15	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		03/29/21 08:38	03/29/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 14:14	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/29/21 08:38	03/29/21 14:14	1
o-Terphenyl	92		70 - 130	03/29/21 08:38	03/29/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.6		4.98		mg/Kg			03/30/21 07:46	1

Client Sample ID: BH-83 (5')

Lab Sample ID: 890-426-83

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 18:36	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 18:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 18:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:22	03/28/21 18:36	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:22	03/28/21 18:36	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-83 (5')

Lab Sample ID: 890-426-83

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/29/21 08:38	03/29/21 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:35	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:38	03/29/21 14:35	1
o-Terphenyl	89		70 - 130	03/29/21 08:38	03/29/21 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.7		4.96		mg/Kg			03/30/21 07:51	1

Client Sample ID: BH-84 (5')

Lab Sample ID: 890-426-84

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 18:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 18:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 18:57	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 18:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:22	03/28/21 18:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:22	03/28/21 18:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:22	03/28/21 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/26/21 15:22	03/28/21 18:57	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:22	03/28/21 18:57	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	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:56	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/29/21 08:38	03/29/21 14:56	1
o-Terphenyl	90		70 - 130	03/29/21 08:38	03/29/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.6		4.97		mg/Kg			03/30/21 07:56	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-85 (5')

Lab Sample ID: 890-426-85

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:22	03/28/21 19:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 19:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 19:17	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 19:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:22	03/28/21 19:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:22	03/28/21 19:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:22	03/28/21 19:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:22	03/28/21 19:17	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		03/29/21 08:38	03/29/21 15:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:17	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:38	03/29/21 15:17	1
o-Terphenyl	88		70 - 130	03/29/21 08:38	03/29/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.5		5.00		mg/Kg			03/30/21 08:01	1

Client Sample ID: BH-86 (7')

Lab Sample ID: 890-426-86

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 19:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:38	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 19:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 19:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:22	03/28/21 19:38	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:22	03/28/21 19:38	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-86 (7')

Lab Sample ID: 890-426-86

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/29/21 08:38	03/29/21 15:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:39	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/29/21 08:38	03/29/21 15:39	1
o-Terphenyl	93		70 - 130	03/29/21 08:38	03/29/21 15:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.7		5.00		mg/Kg			03/30/21 08:06	1

Client Sample ID: BH-87 (7')

Lab Sample ID: 890-426-87

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:58	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:22	03/28/21 19:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:22	03/28/21 19:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/26/21 15:22	03/28/21 19:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:22	03/28/21 19:58	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		03/29/21 08:38	03/29/21 16:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 16:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 16:00	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/29/21 08:38	03/29/21 16:00	1
o-Terphenyl	92		70 - 130	03/29/21 08:38	03/29/21 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2		5.00		mg/Kg			04/01/21 10:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-88 (7')

Lab Sample ID: 890-426-88

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 20:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:18	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:22	03/28/21 20:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:22	03/28/21 20:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/26/21 15:22	03/28/21 20:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:22	03/28/21 20:18	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		03/29/21 08:38	03/29/21 16:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 16:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 16:21	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/29/21 08:38	03/29/21 16:21	1
o-Terphenyl	89		70 - 130	03/29/21 08:38	03/29/21 16:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.02		mg/Kg			04/01/21 11:04	1

Client Sample ID: BH-89 (7')

Lab Sample ID: 890-426-89

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 20:39	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 20:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 20:39	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 20:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 20:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:22	03/28/21 20:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:22	03/28/21 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/26/21 15:22	03/28/21 20:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:22	03/28/21 20:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-89 (7')

Lab Sample ID: 890-426-89

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/29/21 08:38	03/29/21 16:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 16:42	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	03/29/21 08:38	03/29/21 16:42	1
o-Terphenyl	97		70 - 130	03/29/21 08:38	03/29/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.00		mg/Kg			04/01/21 11:09	1

Client Sample ID: BH-90 (7')

Lab Sample ID: 890-426-90

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 20:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:59	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:59	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 20:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 20:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/26/21 15:22	03/28/21 20:59	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/26/21 15:22	03/28/21 20:59	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	<50.1	U	50.1		mg/Kg		03/29/21 08:38	03/29/21 17:03	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/29/21 08:38	03/29/21 17:03	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/29/21 08:38	03/29/21 17:03	1
Total TPH	<50.1	U	50.1		mg/Kg		03/29/21 08:38	03/29/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	03/29/21 08:38	03/29/21 17:03	1
o-Terphenyl	98		70 - 130	03/29/21 08:38	03/29/21 17:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	94.5		4.95		mg/Kg			04/01/21 11:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-91 (7')

Lab Sample ID: 890-426-91

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:22	03/28/21 21:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 21:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 21:20	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 21:20	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 21:20	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:22	03/28/21 21:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/26/21 15:22	03/28/21 21:20	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:22	03/28/21 21:20	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		03/29/21 08:38	03/29/21 17:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 17:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 17:45	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/29/21 08:38	03/29/21 17:45	1
o-Terphenyl	99		70 - 130	03/29/21 08:38	03/29/21 17:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.07		4.97		mg/Kg			04/01/21 11:19	1

Client Sample ID: BH-92 (7')

Lab Sample ID: 890-426-92

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 20:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:12	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 20:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 20:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/26/21 15:25	03/28/21 20:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/26/21 15:25	03/28/21 20:12	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-92 (7')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-92

Matrix: Solid

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		03/29/21 08:38	03/29/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 18:06	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/29/21 08:38	03/29/21 18:06	1
o-Terphenyl	96		70 - 130	03/29/21 08:38	03/29/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.59		4.95		mg/Kg			04/01/21 11:34	1

Client Sample ID: BH-93 (7')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-93

Matrix: Solid

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		03/26/21 15:25	03/28/21 20:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 20:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 20:32	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 20:32	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/26/21 15:25	03/28/21 20:32	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/26/21 15:25	03/28/21 20:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/26/21 15:25	03/28/21 20:32	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/26/21 15:25	03/28/21 20:32	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	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 18:27	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/29/21 08:38	03/29/21 18:27	1
o-Terphenyl	95		70 - 130	03/29/21 08:38	03/29/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			04/01/21 11:39	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-94 (7')

Lab Sample ID: 890-426-94

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 20:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:53	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 20:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 20:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:25	03/28/21 20:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:25	03/28/21 20:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 18:49	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/29/21 08:38	03/29/21 18:49	1
o-Terphenyl	89		70 - 130	03/29/21 08:38	03/29/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.7		5.04		mg/Kg			04/01/21 11:44	1

Client Sample ID: BH-95 (5')

Lab Sample ID: 890-426-95

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:25	03/28/21 21:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 21:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 21:14	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 21:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 21:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 21:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:25	03/28/21 21:14	1
1,4-Difluorobenzene (Surr)	115		70 - 130	03/26/21 15:25	03/28/21 21:14	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-95 (5')

Lab Sample ID: 890-426-95

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/29/21 08:38	03/29/21 19:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 19:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 19:10	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	03/29/21 08:38	03/29/21 19:10	1
o-Terphenyl	96		70 - 130	03/29/21 08:38	03/29/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.0		4.98		mg/Kg			04/01/21 11:49	1

Client Sample ID: BH-96 (5')

Lab Sample ID: 890-426-96

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 21:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:35	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:25	03/28/21 21:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:25	03/28/21 21:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:25	03/28/21 21:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:25	03/28/21 21:35	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		03/29/21 08:38	03/29/21 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 19:32	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:38	03/29/21 19:32	1
o-Terphenyl	96		70 - 130	03/29/21 08:38	03/29/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		5.03		mg/Kg			04/01/21 11:54	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-97 (5')

Lab Sample ID: 890-426-97

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:55	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/28/21 21:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/28/21 21:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	03/26/21 15:25	03/28/21 21:55	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:25	03/28/21 21:55	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	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 19:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 19:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 19:53	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/29/21 08:38	03/29/21 19:53	1
o-Terphenyl	94		70 - 130	03/29/21 08:38	03/29/21 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	246		5.00		mg/Kg			04/01/21 11:59	1

Client Sample ID: BH-98 (5')

Lab Sample ID: 890-426-98

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 22:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 22:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 22:16	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 22:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 22:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/28/21 22:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/28/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/26/21 15:25	03/28/21 22:16	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:25	03/28/21 22:16	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-98 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-98

Matrix: Solid

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		03/29/21 08:38	03/29/21 20:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 20:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 20:14	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:38	03/29/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:38	03/29/21 20:14	1
o-Terphenyl	92		70 - 130	03/29/21 08:38	03/29/21 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	283		4.95		mg/Kg			04/01/21 12:14	1

Client Sample ID: BH-99 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-99

Matrix: Solid

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		03/26/21 15:25	03/28/21 22:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 22:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 22:37	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 22:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:25	03/28/21 22:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:25	03/28/21 22:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/28/21 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/26/21 15:25	03/28/21 22:37	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/26/21 15:25	03/28/21 22:37	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	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 20:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 20:35	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 20:35	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:38	03/29/21 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/29/21 08:38	03/29/21 20:35	1
o-Terphenyl	100		70 - 130	03/29/21 08:38	03/29/21 20:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	276		4.98		mg/Kg			04/01/21 12:19	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-100 (5')

Lab Sample ID: 890-426-100

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 22:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/28/21 22:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/28/21 22:58	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/28/21 22:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:25	03/28/21 22:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:25	03/28/21 22:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/28/21 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/26/21 15:25	03/28/21 22:58	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/26/21 15:25	03/28/21 22:58	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		03/29/21 08:38	03/29/21 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 20:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 20:56	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/29/21 08:38	03/29/21 20:56	1
o-Terphenyl	96		70 - 130	03/29/21 08:38	03/29/21 20:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		5.05		mg/Kg			04/01/21 12:34	1

Client Sample ID: BH-101 (5')

Lab Sample ID: 890-426-101

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/28/21 23:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 23:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 23:18	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 23:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:25	03/28/21 23:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:25	03/28/21 23:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/28/21 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/26/21 15:25	03/28/21 23:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/26/21 15:25	03/28/21 23:18	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-101 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-101

Matrix: Solid

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		03/29/21 08:57	03/29/21 13:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 13:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 13:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/29/21 08:57	03/29/21 13:10	1
o-Terphenyl	107		70 - 130	03/29/21 08:57	03/29/21 13:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		4.99		mg/Kg			04/01/21 12:39	1

Client Sample ID: BH-102 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 7

Lab Sample ID: 890-426-102

Matrix: Solid

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		03/26/21 15:25	03/29/21 00:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 00:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 00:43	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 00:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/29/21 00:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/29/21 00:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/26/21 15:25	03/29/21 00:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:25	03/29/21 00:43	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		03/29/21 08:57	03/29/21 14:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 14:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 14:14	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/29/21 08:57	03/29/21 14:14	1
o-Terphenyl	110		70 - 130	03/29/21 08:57	03/29/21 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	285		4.98		mg/Kg			04/01/21 12:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-103 (5')

Lab Sample ID: 890-426-103

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/29/21 01:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:03	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/26/21 15:25	03/29/21 01:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/26/21 15:25	03/29/21 01:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	03/26/21 15:25	03/29/21 01:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:25	03/29/21 01:03	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		03/29/21 08:57	03/29/21 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 14:35	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:57	03/29/21 14:35	1
o-Terphenyl	111		70 - 130	03/29/21 08:57	03/29/21 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.7		4.96		mg/Kg			04/01/21 12:49	1

Client Sample ID: SW-1 (3.5')

Lab Sample ID: 890-426-104

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:25	03/29/21 01:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:24	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/29/21 01:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/29/21 01:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 01:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/26/21 15:25	03/29/21 01:24	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:25	03/29/21 01:24	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-1 (3.5')

Lab Sample ID: 890-426-104

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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	<50.1	U	50.1		mg/Kg		03/29/21 08:57	03/29/21 14:56	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/29/21 08:57	03/29/21 14:56	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/29/21 08:57	03/29/21 14:56	1
Total TPH	<50.1	U	50.1		mg/Kg		03/29/21 08:57	03/29/21 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/29/21 08:57	03/29/21 14:56	1
o-Terphenyl	88		70 - 130	03/29/21 08:57	03/29/21 14:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.2		4.97		mg/Kg			04/01/21 12:54	1

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 890-426-105

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 3.5

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		03/26/21 15:25	03/29/21 01:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/29/21 01:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/29/21 01:44	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/29/21 01:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:25	03/29/21 01:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:25	03/29/21 01:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:25	03/29/21 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/26/21 15:25	03/29/21 01:44	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/26/21 15:25	03/29/21 01:44	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		03/29/21 08:57	03/29/21 15:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 15:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 15:17	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/29/21 08:57	03/29/21 15:17	1
o-Terphenyl	92		70 - 130	03/29/21 08:57	03/29/21 15:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.4		5.00		mg/Kg			04/01/21 12:59	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 890-426-106

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:25	03/29/21 02:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:05	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	03/26/21 15:25	03/29/21 02:05	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/26/21 15:25	03/29/21 02:05	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		03/29/21 08:57	03/29/21 15:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 15:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 15:39	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	03/29/21 08:57	03/29/21 15:39	1
o-Terphenyl	79		70 - 130	03/29/21 08:57	03/29/21 15:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.2		5.00		mg/Kg			04/01/21 13:04	1

Client Sample ID: SW-4 (5')

Lab Sample ID: 890-426-107

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:25	03/29/21 02:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:26	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:25	03/29/21 02:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/26/21 15:25	03/29/21 02:26	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-4 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-107

Matrix: Solid

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		03/29/21 08:57	03/29/21 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:00	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/29/21 08:57	03/29/21 16:00	1
o-Terphenyl	95		70 - 130	03/29/21 08:57	03/29/21 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.0		4.98		mg/Kg			03/31/21 09:11	1

Client Sample ID: SW-5 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-108

Matrix: Solid

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		03/26/21 15:25	03/29/21 02:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:46	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:25	03/29/21 02:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:25	03/29/21 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/26/21 15:25	03/29/21 02:46	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:25	03/29/21 02:46	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	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:21	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/29/21 08:57	03/29/21 16:21	1
o-Terphenyl	99		70 - 130	03/29/21 08:57	03/29/21 16:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.84		5.05		mg/Kg			03/29/21 12:10	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-426-109

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:25	03/29/21 03:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/29/21 03:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/29/21 03:07	1
Total BTEX	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/29/21 03:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/26/21 15:25	03/29/21 03:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/26/21 15:25	03/29/21 03:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/26/21 15:25	03/29/21 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/26/21 15:25	03/29/21 03:07	1
1,4-Difluorobenzene (Surr)	102		70 - 130	03/26/21 15:25	03/29/21 03:07	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		03/29/21 08:57	03/29/21 16:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 16:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 16:42	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	03/29/21 08:57	03/29/21 16:42	1
o-Terphenyl	119		70 - 130	03/29/21 08:57	03/29/21 16:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.18		4.98		mg/Kg			03/29/21 12:15	1

Client Sample ID: SW-7 (6')

Lab Sample ID: 890-426-110

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:25	03/29/21 03:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 03:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 03:28	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 03:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/29/21 03:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:25	03/29/21 03:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:25	03/29/21 03:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/26/21 15:25	03/29/21 03:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:25	03/29/21 03:28	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-7 (6')

Lab Sample ID: 890-426-110

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/29/21 08:57	03/29/21 17:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:03	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	03/29/21 08:57	03/29/21 17:03	1
o-Terphenyl	101		70 - 130	03/29/21 08:57	03/29/21 17:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.96		5.04		mg/Kg			03/29/21 12:32	1

Client Sample ID: SW-8 (6.5')

Lab Sample ID: 890-426-111

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:25	03/29/21 03:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 03:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 03:48	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 03:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/29/21 03:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:25	03/29/21 03:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:25	03/29/21 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/26/21 15:25	03/29/21 03:48	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/26/21 15:25	03/29/21 03:48	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	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:45	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 17:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130	03/29/21 08:57	03/29/21 17:45	1
o-Terphenyl	75		70 - 130	03/29/21 08:57	03/29/21 17:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.9		4.97		mg/Kg			03/29/21 12:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-9 (5')

Lab Sample ID: 890-426-112

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
Total BTEX	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		03/26/21 15:29	03/29/21 07:12	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/26/21 15:29	03/29/21 07:12	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/26/21 15:29	03/29/21 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	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 18:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 18:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 18:06	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 18:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/29/21 08:57	03/29/21 18:06	1
o-Terphenyl	100		70 - 130	03/29/21 08:57	03/29/21 18:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.95		mg/Kg			03/29/21 12:54	1

Client Sample ID: SW-10 (5')

Lab Sample ID: 890-426-113

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 07:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 07:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 07:33	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 07:33	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 07:33	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 07:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/26/21 15:29	03/29/21 07:33	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/26/21 15:29	03/29/21 07:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-10 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-113

Matrix: Solid

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		03/29/21 08:57	03/29/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 18:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 18:27	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/29/21 08:57	03/29/21 18:27	1
o-Terphenyl	100		70 - 130	03/29/21 08:57	03/29/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		5.05		mg/Kg			03/29/21 12:59	1

Client Sample ID: SW-11 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-114

Matrix: Solid

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		03/26/21 15:29	03/29/21 07:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:54	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:29	03/29/21 07:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:29	03/29/21 07:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 07:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/26/21 15:29	03/29/21 07:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:29	03/29/21 07:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 18:49	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/29/21 08:57	03/29/21 18:49	1
o-Terphenyl	99		70 - 130	03/29/21 08:57	03/29/21 18:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		5.05		mg/Kg			03/29/21 13:05	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-12 (5')

Lab Sample ID: 890-426-115

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 08:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 08:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 08:15	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 08:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 08:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 08:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 08:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/26/21 15:29	03/29/21 08:15	1
1,4-Difluorobenzene (Surr)	115		70 - 130	03/26/21 15:29	03/29/21 08:15	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		03/29/21 08:57	03/29/21 19:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 08:57	03/29/21 19:10	1
o-Terphenyl	98		70 - 130	03/29/21 08:57	03/29/21 19:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		4.98		mg/Kg			03/29/21 13:10	1

Client Sample ID: SW-13 (6.5')

Lab Sample ID: 890-426-116

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/26/21 15:29	03/29/21 08:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:35	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 08:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 08:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:29	03/29/21 08:35	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/26/21 15:29	03/29/21 08:35	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-13 (6.5')

Lab Sample ID: 890-426-116

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6.5

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		03/29/21 08:57	03/29/21 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:32	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 08:57	03/29/21 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130	03/29/21 08:57	03/29/21 19:32	1
o-Terphenyl	54	S1-	70 - 130	03/29/21 08:57	03/29/21 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.94		5.00		mg/Kg			03/29/21 13:16	1

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-426-117

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 08:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:56	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 08:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 08:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 08:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/26/21 15:29	03/29/21 08:56	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/26/21 15:29	03/29/21 08:56	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	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 19:53	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/29/21 08:57	03/29/21 19:53	1
o-Terphenyl	100		70 - 130	03/29/21 08:57	03/29/21 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.50		5.00		mg/Kg			03/29/21 13:22	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-15 (5')

Lab Sample ID: 890-426-118

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 09:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:17	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/26/21 15:29	03/29/21 09:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/26/21 15:29	03/29/21 09:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:29	03/29/21 09:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:29	03/29/21 09:17	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		03/29/21 08:57	03/29/21 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:14	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	03/29/21 08:57	03/29/21 20:14	1
o-Terphenyl	82		70 - 130	03/29/21 08:57	03/29/21 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.37		4.96		mg/Kg			03/29/21 13:27	1

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-426-119

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 09:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 09:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 09:37	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 09:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/26/21 15:29	03/29/21 09:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/26/21 15:29	03/29/21 09:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/26/21 15:29	03/29/21 09:37	1
1,4-Difluorobenzene (Surr)	114		70 - 130	03/26/21 15:29	03/29/21 09:37	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-16 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-119

Matrix: Solid

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		03/29/21 08:57	03/29/21 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:35	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/29/21 08:57	03/29/21 20:35	1
o-Terphenyl	99		70 - 130	03/29/21 08:57	03/29/21 20:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.3		5.03		mg/Kg			03/31/21 10:35	1

Client Sample ID: SW-17 (5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Sample Depth: - 5

Lab Sample ID: 890-426-120

Matrix: Solid

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		03/26/21 15:29	03/29/21 09:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:58	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 09:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 09:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 09:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/26/21 15:29	03/29/21 09:58	1
1,4-Difluorobenzene (Surr)	112		70 - 130	03/26/21 15:29	03/29/21 09:58	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		03/29/21 08:57	03/29/21 20:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 20:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 20:56	1
Total TPH	<49.8	U	49.8		mg/Kg		03/29/21 08:57	03/29/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	03/29/21 08:57	03/29/21 20:56	1
o-Terphenyl	96		70 - 130	03/29/21 08:57	03/29/21 20:56	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.0		5.05		mg/Kg			03/31/21 10:40	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-18 (5')

Lab Sample ID: 890-426-121

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 10:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 10:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 10:19	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 10:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 10:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 10:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/26/21 15:29	03/29/21 10:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/26/21 15:29	03/29/21 10:19	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		03/29/21 10:13	03/29/21 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 14:39	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	03/29/21 10:13	03/29/21 14:39	1
o-Terphenyl	104		70 - 130	03/29/21 10:13	03/29/21 14:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.2		5.00		mg/Kg			03/31/21 10:45	1

Client Sample ID: SW-19 (7')

Lab Sample ID: 890-426-122

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:29	03/29/21 11:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 11:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 11:42	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 11:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 11:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 11:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/26/21 15:29	03/29/21 11:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/26/21 15:29	03/29/21 11:42	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-19 (7')

Lab Sample ID: 890-426-122

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/29/21 10:13	03/29/21 15:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 15:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 15:44	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/29/21 10:13	03/29/21 15:44	1
o-Terphenyl	107		70 - 130	03/29/21 10:13	03/29/21 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.0		4.97		mg/Kg			03/31/21 10:50	1

Client Sample ID: SW-20 (7')

Lab Sample ID: 890-426-123

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:29	03/29/21 12:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 12:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 12:03	1
Total BTEX	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 12:03	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 12:03	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/26/21 15:29	03/29/21 12:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/26/21 15:29	03/29/21 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	03/26/21 15:29	03/29/21 12:03	1
1,4-Difluorobenzene (Surr)	120		70 - 130	03/26/21 15:29	03/29/21 12:03	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		03/29/21 10:13	03/29/21 16:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:06	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	03/29/21 10:13	03/29/21 16:06	1
o-Terphenyl	109		70 - 130	03/29/21 10:13	03/29/21 16:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.95		mg/Kg			03/31/21 11:06	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-21 (7')

Lab Sample ID: 890-426-124

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/26/21 15:29	03/29/21 12:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:23	1
Total BTEX	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 12:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 12:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:29	03/29/21 12:23	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/26/21 15:29	03/29/21 12:23	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	<50.1	U	50.1		mg/Kg		03/29/21 10:13	03/29/21 16:27	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/29/21 10:13	03/29/21 16:27	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/29/21 10:13	03/29/21 16:27	1
Total TPH	<50.1	U	50.1		mg/Kg		03/29/21 10:13	03/29/21 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/29/21 10:13	03/29/21 16:27	1
o-Terphenyl	98		70 - 130	03/29/21 10:13	03/29/21 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.96		mg/Kg			03/31/21 11:12	1

Client Sample ID: SW-22 (7')

Lab Sample ID: 890-426-125

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00411		0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
Ethylbenzene	0.00420		0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
Total BTEX	0.00831		0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 12:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130	03/26/21 15:29	03/29/21 12:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/26/21 15:29	03/29/21 12:44	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-22 (7')

Lab Sample ID: 890-426-125

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 7

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		03/29/21 10:13	03/29/21 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:49	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/29/21 10:13	03/29/21 16:49	1
o-Terphenyl	89		70 - 130	03/29/21 10:13	03/29/21 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		4.98		mg/Kg			03/31/21 11:28	1

Client Sample ID: SW-23 (5')

Lab Sample ID: 890-426-126

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00288		0.00201		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
Total BTEX	0.00288		0.00201		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 13:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/26/21 15:29	03/29/21 13:05	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/26/21 15:29	03/29/21 13:05	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		03/29/21 10:13	03/29/21 17:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 17:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 17:10	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/29/21 10:13	03/29/21 17:10	1
o-Terphenyl	96		70 - 130	03/29/21 10:13	03/29/21 17:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		4.98		mg/Kg			03/31/21 11:33	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-24 (5')

Lab Sample ID: 890-426-127

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 13:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 13:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 13:26	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 13:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 13:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 13:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	03/26/21 15:29	03/29/21 13:26	1
1,4-Difluorobenzene (Surr)	111		70 - 130	03/26/21 15:29	03/29/21 13:26	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	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:32	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/29/21 10:13	03/29/21 17:32	1
o-Terphenyl	98		70 - 130	03/29/21 10:13	03/29/21 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.8		4.98		mg/Kg			03/31/21 11:38	1

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-426-128

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 13:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 13:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 13:46	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 13:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 13:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 13:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 13:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/26/21 15:29	03/29/21 13:46	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:29	03/29/21 13:46	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-426-128

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/29/21 10:13	03/29/21 17:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:54	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/29/21 10:13	03/29/21 17:54	1
o-Terphenyl	92		70 - 130	03/29/21 10:13	03/29/21 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		4.99		mg/Kg			03/31/21 11:44	1

Client Sample ID: SW-26 (5')

Lab Sample ID: 890-426-129

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00308		0.00201		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
Total BTEX	0.00308		0.00201		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/26/21 15:29	03/29/21 14:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/26/21 15:29	03/29/21 14:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/26/21 15:29	03/29/21 14:07	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/26/21 15:29	03/29/21 14:07	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		03/29/21 10:13	03/29/21 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 18:16	1
Total TPH	<49.9	U	49.9		mg/Kg		03/29/21 10:13	03/29/21 18:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/29/21 10:13	03/29/21 18:16	1
o-Terphenyl	95		70 - 130	03/29/21 10:13	03/29/21 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		5.00		mg/Kg			03/31/21 11:49	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-27 (5')

Lab Sample ID: 890-426-130

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 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		03/26/21 15:29	03/29/21 14:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 14:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 14:28	1
Total BTEX	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 14:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 14:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/26/21 15:29	03/29/21 14:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/26/21 15:29	03/29/21 14:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	03/26/21 15:29	03/29/21 14:28	1
1,4-Difluorobenzene (Surr)	118		70 - 130	03/26/21 15:29	03/29/21 14:28	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		03/29/21 10:13	03/29/21 18:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 18:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 18:37	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/29/21 10:13	03/29/21 18:37	1
o-Terphenyl	96		70 - 130	03/29/21 10:13	03/29/21 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		5.01		mg/Kg			03/31/21 11:54	1

Client Sample ID: SW-28 (6')

Lab Sample ID: 890-426-131

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/26/21 15:29	03/29/21 14:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 14:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 14:48	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 14:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 14:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:29	03/29/21 14:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:29	03/29/21 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/26/21 15:29	03/29/21 14:48	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/26/21 15:29	03/29/21 14:48	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-28 (6')

Lab Sample ID: 890-426-131

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Sample Depth: - 6

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		03/29/21 10:13	03/29/21 19:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 19:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 19:20	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 19:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	03/29/21 10:13	03/29/21 19:20	1
o-Terphenyl	103		70 - 130	03/29/21 10:13	03/29/21 19:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		5.03		mg/Kg			03/31/21 12:00	1

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

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)
890-426-1	BH-1 (3.5')	92	104
890-426-2	BH-2 (3.5')	91	112
890-426-3	BH-3 (3.5')	95	109
890-426-4	BH-4 (3.5')	93	112
890-426-5	BH-5 (3.5')	103	109
890-426-6	BH-6 (3.5')	800 S1+	425 S1+
890-426-7	BH-7 (3.5')	101	102
890-426-8	BH-8 (3.5')	101	124
890-426-9	BH-9 (3.5')	104	98
890-426-10	BH-10 (3.5')	101	107
890-426-11	BH-11 (5')	98	112
890-426-12	BH-12 (5')	109	98
890-426-12 MS	BH-12 (5')	124	93
890-426-12 MSD	BH-12 (5')	104	97
890-426-13	BH-13 (5')	111	98
890-426-14	BH-14 (5')	110	101
890-426-15	BH-15 (5')	112	102
890-426-16	BH-16 (5')	115	100
890-426-17	BH-17 (5')	113	100
890-426-18	BH-18 (5')	113	103
890-426-19	BH-19 (5')	110	102
890-426-20	BH-20 (6')	112	100
890-426-21	BH-21 (6')	110	97
890-426-22	BH-22 (6')	111	96
890-426-23	BH-23 (6')	112	102
890-426-24	BH-24 (6')	121	89
890-426-25	BH-25 (6')	114	101
890-426-26	BH-26 (6')	112	102
890-426-27	BH-27 (6')	114	102
890-426-28	BH-28 (6.5')	121	91
890-426-29	BH-29 (6.5')	114	99
890-426-30	BH-30 (6.5')	112	102
890-426-31	BH-31 (6.5')	114	101
890-426-32	BH-32 (6.5')	110	102
890-426-32 MS	BH-32 (6.5')	106	98
890-426-32 MSD	BH-32 (6.5')	107	101
890-426-33	BH-33 (6.5')	109	100
890-426-34	BH-34 (5')	116	106
890-426-35	BH-35 (5')	116	98
890-426-36	BH-36 (5')	118	95
890-426-37	BH-37 (6')	115	97
890-426-38	BH-38 (6')	113	97
890-426-39	BH-39 (6')	110	102
890-426-40	BH-40 (6')	112	98
890-426-41	BH-41 (6')	119	88
890-426-42	BH-42 (6')	109	100
890-426-43	BH-43 (6')	115	99
890-426-44	BH-44 (6')	113	101
890-426-45	BH-45 (6')	112	100

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-426-46	BH-46 (3.5')	116	96
890-426-47	BH-47 (3.5')	112	101
890-426-48	BH-48 (5')	127	92
890-426-49	BH-49 (5')	113	99
890-426-50	BH-50 (5')	114	100
890-426-51	BH-51 (5')	111	99
890-426-52	BH-52 (5')	123	86
890-426-52 MS	BH-52 (5')	123	96
890-426-52 MSD	BH-52 (5')	127	113
890-426-53	BH-53 (5')	131 S1+	103
890-426-54	BH-54 (5')	110	94
890-426-55	BH-55 (5')	121	99
890-426-56	BH-56 (5')	117	101
890-426-57	BH-57 (5')	117	102
890-426-58	BH-58 (5')	119	102
890-426-59	BH-59 (5')	119	101
890-426-60	BH-60 (5')	117	99
890-426-61	BH-61 (5')	110	98
890-426-62	BH-62 (5')	106	99
890-426-63	BH-63 (5')	113	104
890-426-64	BH-64 (5')	116	104
890-426-65	BH-65 (5')	118	103
890-426-66	BH-66 (5')	112	101
890-426-67	BH-67 (5')	116	103
890-426-68	BH-68 (5')	116	105
890-426-69	BH-69 (5')	118	100
890-426-70	BH-70 (5')	112	96
890-426-71	BH-71 (5')	119	104
890-426-72	BH-72 (5')	98	98
890-426-72 MS	BH-72 (5')	119	104
890-426-72 MSD	BH-72 (5')	116	94
890-426-73	BH-73 (5')	104	105
890-426-74	BH-74 (5')	117	101
890-426-75	BH-75 (5')	113	101
890-426-76	BH-76 (5')	119	103
890-426-77	BH-77 (5')	119	100
890-426-78	BH-78 (5')	119	99
890-426-79	BH-79 (5')	116	101
890-426-80	BH-80 (5')	114	101
890-426-81	BH-81 (5')	116	103
890-426-82	BH-82 (5')	108	101
890-426-83	BH-83 (5')	116	102
890-426-84	BH-84 (5')	117	104
890-426-85	BH-85 (5')	114	105
890-426-86	BH-86 (7')	114	104
890-426-87	BH-87 (7')	116	101
890-426-88	BH-88 (7')	114	102
890-426-89	BH-89 (7')	111	104
890-426-90	BH-90 (7')	113	103
890-426-91	BH-91 (7')	117	100

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-426-92	BH-92 (7')	92	108
890-426-93	BH-93 (7')	96	110
890-426-94	BH-94 (7')	104	105
890-426-95	BH-95 (5')	98	115
890-426-96	BH-96 (5')	98	105
890-426-97	BH-97 (5')	93	107
890-426-98	BH-98 (5')	96	105
890-426-99	BH-99 (5')	106	111
890-426-100	BH-100 (5')	95	98
890-426-101	BH-101 (5')	94	108
890-426-102	BH-102 (5')	100	104
890-426-103	BH-103 (5')	94	102
890-426-104	SW-1 (3.5')	106	107
890-426-105	SW-2 (3.5')	91	106
890-426-106	SW-3 (3.5')	111	110
890-426-107	SW-4 (5')	98	106
890-426-108	SW-5 (5')	99	107
890-426-109	SW-6 (5')	95	102
890-426-110	SW-7 (6')	100	105
890-426-111	SW-8 (6.5')	97	114
890-426-112	SW-9 (5')	95	108
890-426-112 MS	SW-9 (5')	96	105
890-426-113	SW-10 (5')	107	111
890-426-114	SW-11 (5')	101	105
890-426-115	SW-12 (5')	103	115
890-426-116	SW-13 (6.5')	104	111
890-426-117	SW-14 (5')	99	101
890-426-118	SW-15 (5')	98	107
890-426-119	SW-16 (5')	99	114
890-426-120	SW-17 (5')	100	112
890-426-121	SW-18 (5')	106	108
890-426-122	SW-19 (7')	97	105
890-426-123	SW-20 (7')	110	120
890-426-124	SW-21 (7')	104	108
890-426-125	SW-22 (7')	131 S1+	94
890-426-126	SW-23 (5')	97	109
890-426-127	SW-24 (5')	100	111
890-426-128	SW-25 (5')	97	104
890-426-129	SW-26 (5')	98	107
890-426-130	SW-27 (5')	118	118
890-426-131	SW-28 (6')	92	104
890-426-A-92-C MS	890-426-A-92-C MS	92	101
890-426-A-92-C MSD	890-426-A-92-C MSD	84	89
LCS 880-917/1-A	Lab Control Sample	100	100
LCS 880-920/1-A	Lab Control Sample	102	101
LCS 880-922/1-A	Lab Control Sample	101	102
LCS 880-923/1-A	Lab Control Sample	122	105
LCS 880-936/35	Lab Control Sample	95	101
LCS 880-963/67	Lab Control Sample	94	105
LCS 880-963/99	Lab Control Sample	91	107

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCSD 880-917/2-A	Lab Control Sample Dup	103	100
LCSD 880-920/2-A	Lab Control Sample Dup	103	100
LCSD 880-922/2-A	Lab Control Sample Dup	114	106
LCSD 880-923/2-A	Lab Control Sample Dup	111	104
LCSD 880-936/36	Lab Control Sample Dup	93	100
LCSD 880-963/68	Lab Control Sample Dup	95	104
MB 880-917/5-A	Method Blank	104	96
MB 880-920/5-A	Method Blank	103	94
MB 880-922/5-A	Method Blank	105	99
MB 880-923/5-A	Method Blank	104	100
MB 880-936/41	Method Blank	110	93
MB 880-936/9	Method Blank	108	95
MB 880-955/5-A	Method Blank	108	101
MB 880-962/5-A	Method Blank	111	98
MB 880-963/105	Method Blank	118	91
MB 880-963/73	Method Blank	113	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
890-426-112 MSD	SW-9 (5')		
LCSD 880-963/100	Lab Control Sample Dup		

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-426-1	BH-1 (3.5')	91	73
890-426-1 MS	BH-1 (3.5')	100	0.9 S1-
890-426-1 MSD	BH-1 (3.5')	102	0.8 S1-
890-426-2	BH-2 (3.5')	87	76
890-426-3	BH-3 (3.5')	88	77
890-426-4	BH-4 (3.5')	93	78
890-426-5	BH-5 (3.5')	98	79
890-426-6	BH-6 (3.5')	86	74
890-426-7	BH-7 (3.5')	95	80
890-426-8	BH-8 (3.5')	94	76
890-426-9	BH-9 (3.5')	89	78
890-426-10	BH-10 (3.5')	89	79

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

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	OTPH1
		(70-130)	(70-130)
890-426-11	BH-11 (5')	90	75
890-426-12	BH-12 (5')	91	79
890-426-13	BH-13 (5')	91	85
890-426-14	BH-14 (5')	99	84
890-426-15	BH-15 (5')	98	89
890-426-16	BH-16 (5')	90	80
890-426-17	BH-17 (5')	96	83
890-426-18	BH-18 (5')	97	84
890-426-19	BH-19 (5')	92	93
890-426-20	BH-20 (6')	91	84
890-426-21	BH-21 (6')	71	67 S1-
890-426-21 MS	BH-21 (6')	78	66 S1-
890-426-21 MSD	BH-21 (6')	86	74
890-426-22	BH-22 (6')	79	74
890-426-23	BH-23 (6')	80	76
890-426-24	BH-24 (6')	67 S1-	62 S1-
890-426-25	BH-25 (6')	83	83
890-426-26	BH-26 (6')	78	77
890-426-27	BH-27 (6')	92	89
890-426-28	BH-28 (6.5')	76	75
890-426-29	BH-29 (6.5')	79	73
890-426-30	BH-30 (6.5')	73	69 S1-
890-426-31	BH-31 (6.5')	79	75
890-426-32	BH-32 (6.5')	74	68 S1-
890-426-33	BH-33 (6.5')	76	71
890-426-34	BH-34 (5')	85	82
890-426-35	BH-35 (5')	81	78
890-426-36	BH-36 (5')	78	72
890-426-37	BH-37 (6')	129	108
890-426-38	BH-38 (6')	75	70
890-426-39	BH-39 (6')	74	69 S1-
890-426-40	BH-40 (6')	51 S1-	47 S1-
890-426-41	BH-41 (6')	96	80
890-426-41 MS	BH-41 (6')	105	71
890-426-41 MSD	BH-41 (6')	100	71
890-426-42	BH-42 (6')	99	86
890-426-43	BH-43 (6')	102	83
890-426-44	BH-44 (6')	106	89
890-426-45	BH-45 (6')	100	86
890-426-46	BH-46 (3.5')	105	86
890-426-47	BH-47 (3.5')	105	91
890-426-48	BH-48 (5')	111	93
890-426-49	BH-49 (5')	97	84
890-426-50	BH-50 (5')	95	83
890-426-51	BH-51 (5')	109	96
890-426-52	BH-52 (5')	100	89
890-426-53	BH-53 (5')	112	97
890-426-54	BH-54 (5')	112	96
890-426-55	BH-55 (5')	97	87
890-426-56	BH-56 (5')	96	82

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-426-57	BH-57 (5')	115	100
890-426-58	BH-58 (5')	108	94
890-426-59	BH-59 (5')	98	83
890-426-60	BH-60 (5')	109	93
890-426-61	BH-61 (5')	101	85
890-426-61 MS	BH-61 (5')	106	82
890-426-61 MSD	BH-61 (5')	124	84
890-426-62	BH-62 (5')	106	91
890-426-63	BH-63 (5')	112	100
890-426-64	BH-64 (5')	105	97
890-426-65	BH-65 (5')	104	87
890-426-66	BH-66 (5')	105	89
890-426-67	BH-67 (5')	111	94
890-426-68	BH-68 (5')	109	93
890-426-69	BH-69 (5')	103	91
890-426-70	BH-70 (5')	103	90
890-426-71	BH-71 (5')	110	96
890-426-72	BH-72 (5')	109	93
890-426-73	BH-73 (5')	118	103
890-426-74	BH-74 (5')	122	103
890-426-75	BH-75 (5')	108	91
890-426-76	BH-76 (5')	107	89
890-426-77	BH-77 (5')	106	95
890-426-78	BH-78 (5')	99	88
890-426-79	BH-79 (5')	112	96
890-426-80	BH-80 (5')	108	95
890-426-81	BH-81 (5')	104	93
890-426-81 MS	BH-81 (5')	104	86
890-426-81 MSD	BH-81 (5')	106	86
890-426-82	BH-82 (5')	103	92
890-426-83	BH-83 (5')	99	89
890-426-84	BH-84 (5')	102	90
890-426-85	BH-85 (5')	99	88
890-426-86	BH-86 (7')	107	93
890-426-87	BH-87 (7')	101	92
890-426-88	BH-88 (7')	100	89
890-426-89	BH-89 (7')	110	97
890-426-90	BH-90 (7')	108	98
890-426-91	BH-91 (7')	103	99
890-426-92	BH-92 (7')	102	96
890-426-93	BH-93 (7')	104	95
890-426-94	BH-94 (7')	98	89
890-426-95	BH-95 (5')	101	96
890-426-96	BH-96 (5')	99	96
890-426-97	BH-97 (5')	103	94
890-426-98	BH-98 (5')	99	92
890-426-99	BH-99 (5')	104	100
890-426-100	BH-100 (5')	102	96
890-426-101	BH-101 (5')	96	107
890-426-101 MS	BH-101 (5')	109	109

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

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)
890-426-101 MSD	BH-101 (5')	100	98
890-426-102	BH-102 (5')	98	110
890-426-103	BH-103 (5')	99	111
890-426-104	SW-1 (3.5')	95	88
890-426-105	SW-2 (3.5')	89	92
890-426-106	SW-3 (3.5')	77	79
890-426-107	SW-4 (5')	91	95
890-426-108	SW-5 (5')	93	99
890-426-109	SW-6 (5')	116	119
890-426-110	SW-7 (6')	95	101
890-426-111	SW-8 (6.5')	79	75
890-426-112	SW-9 (5')	102	100
890-426-113	SW-10 (5')	94	100
890-426-114	SW-11 (5')	93	99
890-426-115	SW-12 (5')	99	98
890-426-116	SW-13 (6.5')	54 S1-	54 S1-
890-426-117	SW-14 (5')	93	100
890-426-118	SW-15 (5')	85	82
890-426-119	SW-16 (5')	94	99
890-426-120	SW-17 (5')	92	96
890-426-121	SW-18 (5')	100	104
890-426-121 MS	SW-18 (5')	109	96
890-426-121 MSD	SW-18 (5')	106	95
890-426-122	SW-19 (7')	102	107
890-426-123	SW-20 (7')	106	109
890-426-124	SW-21 (7')	96	98
890-426-125	SW-22 (7')	93	89
890-426-126	SW-23 (5')	98	96
890-426-127	SW-24 (5')	99	98
890-426-128	SW-25 (5')	96	92
890-426-129	SW-26 (5')	96	95
890-426-130	SW-27 (5')	96	96
890-426-131	SW-28 (6')	97	103
LCS 880-891/2-A	Lab Control Sample	105	81
LCS 880-892/2-A	Lab Control Sample	89	82
LCS 880-941/2-A	Lab Control Sample	108	85
LCS 880-942/2-A	Lab Control Sample	110	88
LCS 880-982/2-A	Lab Control Sample	109	93
LCS 880-983/2-A	Lab Control Sample	107	110
LCS 880-989/2-A	Lab Control Sample	105	100
LCSD 880-891/3-A	Lab Control Sample Dup	97	76
LCSD 880-892/3-A	Lab Control Sample Dup	91	85
LCSD 880-941/3-A	Lab Control Sample Dup	107	87
LCSD 880-942/3-A	Lab Control Sample Dup	110	86
LCSD 880-982/3-A	Lab Control Sample Dup	117	96
LCSD 880-983/3-A	Lab Control Sample Dup	115	115
LCSD 880-989/3-A	Lab Control Sample Dup	112	106
MB 880-891/1-A	Method Blank	93	87
MB 880-892/1-A	Method Blank	87	90
MB 880-941/1-A	Method Blank	105	95

Eurofins Xenco, Carlsbad

Surrogate Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

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	OTPH1
		(70-130)	(70-130)
MB 880-942/1-A	Method Blank	105	96
MB 880-982/1-A	Method Blank	107	107
MB 880-983/1-A	Method Blank	107	121
MB 880-989/1-A	Method Blank	104	114

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-917/5-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 917

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:09	03/27/21 17:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:09	03/27/21 17:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:09	03/27/21 17:33	1
1,4-Difluorobenzene (Surr)	96		70 - 130	03/26/21 15:09	03/27/21 17:33	1

Lab Sample ID: LCS 880-917/1-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 917

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09272		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130
Toluene	0.100	0.1008		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2197		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1035		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-917/2-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 917

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09511		mg/Kg		95	70 - 130	3	35
Ethylbenzene	0.100	0.1081		mg/Kg		108	70 - 130	3	35
Toluene	0.100	0.1033		mg/Kg		103	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2186		mg/Kg		109	70 - 130	1	35
o-Xylene	0.100	0.1085		mg/Kg		108	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-426-12 MS

Matrix: Solid

Analysis Batch: 949

Client Sample ID: BH-12 (5')

Prep Type: Total/NA

Prep Batch: 917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U F2 F1	0.100	0.04863	F1	mg/Kg		48	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-12 MS

Matrix: Solid

Analysis Batch: 949

Client Sample ID: BH-12 (5')

Prep Type: Total/NA

Prep Batch: 917

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06905	F1	mg/Kg		68	70 - 130
Toluene	<0.00200	U F1	0.100	0.06443	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	0.0224		0.201	0.1646		mg/Kg		71	70 - 130
o-Xylene	0.00419		0.100	0.07670		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-426-12 MSD

Matrix: Solid

Analysis Batch: 949

Client Sample ID: BH-12 (5')

Prep Type: Total/NA

Prep Batch: 917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.0994	0.07854	F2	mg/Kg		79	70 - 130	47	35
Ethylbenzene	<0.00200	U F1	0.0994	0.08571		mg/Kg		85	70 - 130	22	35
Toluene	<0.00200	U F1	0.0994	0.08392		mg/Kg		83	70 - 130	26	35
m-Xylene & p-Xylene	0.0224		0.199	0.1894		mg/Kg		84	70 - 130	14	35
o-Xylene	0.00419		0.0994	0.08684		mg/Kg		83	70 - 130	12	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-920/5-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:13	03/28/21 04:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:13	03/28/21 04:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/26/21 15:13	03/28/21 04:34	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/26/21 15:13	03/28/21 04:34	1

Lab Sample ID: LCS 880-920/1-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09487		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1030		mg/Kg		103	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-920/1-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.09959		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	0.200	0.2092		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1041		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-920/2-A

Matrix: Solid

Analysis Batch: 949

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09565		mg/Kg		96	70 - 130	1	35
Ethylbenzene	0.100	0.1038		mg/Kg		104	70 - 130	1	35
Toluene	0.100	0.09896		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2109		mg/Kg		105	70 - 130	1	35
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-426-32 MS

Matrix: Solid

Analysis Batch: 949

Client Sample ID: BH-32 (6.5')

Prep Type: Total/NA

Prep Batch: 920

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130
Ethylbenzene	<0.00199	U	0.0990	0.07703		mg/Kg		78	70 - 130
Toluene	<0.00199	U	0.0990	0.07379		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1589		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U	0.0990	0.07732		mg/Kg		78	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-426-32 MSD

Matrix: Solid

Analysis Batch: 949

Client Sample ID: BH-32 (6.5')

Prep Type: Total/NA

Prep Batch: 920

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.0996	0.08054		mg/Kg		81	70 - 130	NC	35
Ethylbenzene	<0.00199	U	0.0996	0.08867		mg/Kg		89	70 - 130	14	35
Toluene	<0.00199	U	0.0996	0.08552		mg/Kg		86	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1801		mg/Kg		90	70 - 130	13	35
o-Xylene	<0.00199	U	0.0996	0.08892		mg/Kg		89	70 - 130	14	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-922/5-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:17	03/28/21 02:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:17	03/28/21 02:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	03/26/21 15:17	03/28/21 02:56	1
1,4-Difluorobenzene (Surr)	99		70 - 130	03/26/21 15:17	03/28/21 02:56	1

Lab Sample ID: LCS 880-922/1-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1042		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.09994		mg/Kg		100	70 - 130
Toluene	0.100	0.09642		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.200	0.2009		mg/Kg		100	70 - 130
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-922/2-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 922

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1025		mg/Kg		102	70 - 130	2	35
Ethylbenzene	0.100	0.1000		mg/Kg		100	70 - 130	0	35
Toluene	0.100	0.09429		mg/Kg		94	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2030		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-52 MS

Matrix: Solid

Analysis Batch: 954

Client Sample ID: BH-52 (5')

Prep Type: Total/NA

Prep Batch: 922

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0990	0.08604		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U	0.0990	0.1064		mg/Kg		106	70 - 130
Toluene	<0.00200	U	0.0990	0.09539		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	0.00414		0.198	0.2168		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.0990	0.1116		mg/Kg		112	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-426-52 MSD

Matrix: Solid

Analysis Batch: 954

Client Sample ID: BH-52 (5')

Prep Type: Total/NA

Prep Batch: 922

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.1086		mg/Kg		108	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.101	0.09338		mg/Kg		92	70 - 130	13	35
Toluene	<0.00200	U	0.101	0.09193		mg/Kg		91	70 - 130	4	35
m-Xylene & p-Xylene	0.00414		0.202	0.1936		mg/Kg		94	70 - 130	11	35
o-Xylene	<0.00200	U	0.101	0.1070		mg/Kg		105	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: MB 880-923/5-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 923

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/26/21 15:22	03/28/21 13:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/26/21 15:22	03/28/21 13:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/26/21 15:22	03/28/21 13:29	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/26/21 15:22	03/28/21 13:29	1

Lab Sample ID: LCS 880-923/1-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1171		mg/Kg		117	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-923/1-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 923

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	0.100	0.1178		mg/Kg		118	70 - 130
Toluene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2419		mg/Kg		121	70 - 130
o-Xylene	0.100	0.1300		mg/Kg		130	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-923/2-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 923

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	1	35
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130	3	35
Toluene	0.100	0.1114		mg/Kg		111	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2310		mg/Kg		116	70 - 130	5	35
o-Xylene	0.100	0.1201		mg/Kg		120	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-426-72 MS

Matrix: Solid

Analysis Batch: 954

Client Sample ID: BH-72 (5')

Prep Type: Total/NA

Prep Batch: 923

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U F1 F2	0.100	0.07120		mg/Kg		71	70 - 130
Ethylbenzene	<0.00202	U F1 F2	0.100	0.06812	F1	mg/Kg		68	70 - 130
Toluene	<0.00202	U F1 F2	0.100	0.06364	F1	mg/Kg		63	70 - 130
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.201	0.1328	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00202	U F1 F2	0.100	0.08277		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-426-72 MSD

Matrix: Solid

Analysis Batch: 954

Client Sample ID: BH-72 (5')

Prep Type: Total/NA

Prep Batch: 923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00202	U F1 F2	0.100	0.03405	F1 F2	mg/Kg		34	70 - 130	71	35
Ethylbenzene	<0.00202	U F1 F2	0.100	0.04126	F1 F2	mg/Kg		41	70 - 130	49	35
Toluene	<0.00202	U F1 F2	0.100	0.03711	F1 F2	mg/Kg		37	70 - 130	53	35
m-Xylene & p-Xylene	<0.00404	U F1 F2	0.200	0.08287	F1 F2	mg/Kg		41	70 - 130	46	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-72 MSD

Matrix: Solid

Analysis Batch: 954

Client Sample ID: BH-72 (5')

Prep Type: Total/NA

Prep Batch: 923

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene	<0.00202	U F1 F2	0.100	0.05311	F1 F2	mg/Kg		53	70 - 130	44	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	116		70 - 130								
1,4-Difluorobenzene (Surr)	94		70 - 130								

Lab Sample ID: 890-426-A-92-C MS

Matrix: Solid

Analysis Batch: 963

Client Sample ID: 890-426-A-92-C MS

Prep Type: Total/NA

Prep Batch: 924

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-426-A-92-C MSD

Matrix: Solid

Analysis Batch: 963

Client Sample ID: 890-426-A-92-C MSD

Prep Type: Total/NA

Prep Batch: 924

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 890-426-112 MS

Matrix: Solid

Analysis Batch: 963

Client Sample ID: SW-9 (5')

Prep Type: Total/NA

Prep Batch: 925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.06796	F1	mg/Kg		66	70 - 130		
Ethylbenzene	<0.00200	U F1	0.101	0.06300	F1	mg/Kg		62	70 - 130		
Toluene	<0.00200	U	0.101	0.07070		mg/Kg		70	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1272	F1	mg/Kg		62	70 - 130		
o-Xylene	<0.00200	U F1	0.101	0.06250	F1	mg/Kg		62	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

Lab Sample ID: 890-426-112 MSD

Matrix: Solid

Analysis Batch: 963

Client Sample ID: SW-9 (5')

Prep Type: Total/NA

Prep Batch: 925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.101	0.08744		mg/Kg					
Ethylbenzene	<0.00200	U F1	0.101	0.08217		mg/Kg					
Toluene	<0.00200	U	0.101	0.09064		mg/Kg					
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1614		mg/Kg					
o-Xylene	<0.00200	U F1	0.101	0.07781		mg/Kg					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-112 MSD

Matrix: Solid

Analysis Batch: 963

Client Sample ID: SW-9 (5')

Prep Type: Total/NA

Prep Batch: 925

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: MB 880-936/41

Matrix: Solid

Analysis Batch: 936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/27/21 08:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/27/21 08:27	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/27/21 08:27	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/27/21 08:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/27/21 08:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/27/21 08:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/27/21 08:27	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130					03/27/21 08:27	1
1,4-Difluorobenzene (Surr)	93		70 - 130					03/27/21 08:27	1

Lab Sample ID: MB 880-936/9

Matrix: Solid

Analysis Batch: 936

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/26/21 21:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/26/21 21:22	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/26/21 21:22	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/26/21 21:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/26/21 21:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/26/21 21:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/26/21 21:22	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	108		70 - 130					03/26/21 21:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130					03/26/21 21:22	1

Lab Sample ID: LCS 880-936/35

Matrix: Solid

Analysis Batch: 936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS					%Rec.
	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09109		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09483		mg/Kg		95	70 - 130	
Toluene	0.100	0.09786		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1911		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09577		mg/Kg		96	70 - 130	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-936/35

Matrix: Solid

Analysis Batch: 936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-936/36

Matrix: Solid

Analysis Batch: 936

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09377		mg/Kg		94	70 - 130	3	35
Ethylbenzene	0.100	0.09300		mg/Kg		93	70 - 130	2	35
Toluene	0.100	0.09904		mg/Kg		99	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1882		mg/Kg		94	70 - 130	2	35
o-Xylene	0.100	0.09501		mg/Kg		95	70 - 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-955/5-A

Matrix: Solid

Analysis Batch: 954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 955

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/27/21 13:55	03/27/21 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/27/21 13:55	03/27/21 15:46	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	108		70 - 130	03/27/21 13:55	03/27/21 15:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/27/21 13:55	03/27/21 15:46	1

Lab Sample ID: MB 880-962/5-A

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
Total BTEX	<0.00200	U	0.00200		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/27/21 17:17	03/28/21 08:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/27/21 17:17	03/28/21 08:48	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-962/5-A

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 962

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	111		70 - 130	03/27/21 17:17	03/28/21 08:48	1			
1,4-Difluorobenzene (Surr)	98		70 - 130	03/27/21 17:17	03/28/21 08:48	1			

Lab Sample ID: MB 880-963/105

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/29/21 06:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/29/21 06:51	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/29/21 06:51	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/29/21 06:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/29/21 06:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/29/21 06:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/29/21 06:51	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	118		70 - 130		03/29/21 06:51	1			
1,4-Difluorobenzene (Surr)	91		70 - 130		03/29/21 06:51	1			

Lab Sample ID: MB 880-963/73

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			03/28/21 19:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			03/28/21 19:50	1
Toluene	<0.00200	U	0.00200		mg/Kg			03/28/21 19:50	1
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/28/21 19:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			03/28/21 19:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg			03/28/21 19:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			03/28/21 19:50	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	113		70 - 130		03/28/21 19:50	1			
1,4-Difluorobenzene (Surr)	95		70 - 130		03/28/21 19:50	1			

Lab Sample ID: LCS 880-963/67

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	94		70 - 130						
1,4-Difluorobenzene (Surr)	105		70 - 130						

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-963/99

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-963/100

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)			
1,4-Difluorobenzene (Surr)			

Lab Sample ID: LCSD 880-963/68

Matrix: Solid

Analysis Batch: 963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-891/1-A

Matrix: Solid

Analysis Batch: 894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 891

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	168.6		50.0		mg/Kg		03/26/21 09:19	03/26/21 12:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 12:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:19	03/26/21 12:58	1
Total TPH	168.6		50.0		mg/Kg		03/26/21 09:19	03/26/21 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	03/26/21 09:19	03/26/21 12:58	1
o-Terphenyl	87		70 - 130	03/26/21 09:19	03/26/21 12:58	1

Lab Sample ID: LCS 880-891/2-A

Matrix: Solid

Analysis Batch: 894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 891

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1194		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	931.2		mg/Kg		93	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-891/2-A

Matrix: Solid

Analysis Batch: 894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 891

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: LCSD 880-891/3-A

Matrix: Solid

Analysis Batch: 894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 891

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1125		mg/Kg		112	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	860.6		mg/Kg		86	70 - 130	8	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	76		70 - 130								

Lab Sample ID: 890-426-1 MS

Matrix: Solid

Analysis Batch: 894

Client Sample ID: BH-1 (3.5')

Prep Type: Total/NA

Prep Batch: 891

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1155		mg/Kg		116	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1021		mg/Kg		102	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	0.9	S1-	70 - 130								

Lab Sample ID: 890-426-1 MSD

Matrix: Solid

Analysis Batch: 894

Client Sample ID: BH-1 (3.5')

Prep Type: Total/NA

Prep Batch: 891

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	<49.9	U	997	1184		mg/Kg		119	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1005		mg/Kg		101	70 - 130	2	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	0.8	S1-	70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-892/1-A

Matrix: Solid

Analysis Batch: 897

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 892

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		03/26/21 09:37	03/26/21 12:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 12:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 12:58	1
Total TPH	<50.0	U	50.0		mg/Kg		03/26/21 09:37	03/26/21 12:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	03/26/21 09:37	03/26/21 12:58	1
o-Terphenyl	90		70 - 130	03/26/21 09:37	03/26/21 12:58	1

Lab Sample ID: LCS 880-892/2-A

Matrix: Solid

Analysis Batch: 897

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 892

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1048		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	1000	902.8		mg/Kg		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-892/3-A

Matrix: Solid

Analysis Batch: 897

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 892

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1073		mg/Kg		107	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	926.0		mg/Kg		93	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-426-21 MS

Matrix: Solid

Analysis Batch: 897

Client Sample ID: BH-21 (6')

Prep Type: Total/NA

Prep Batch: 892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	897.2		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	792.7		mg/Kg		78	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-21 MS

Matrix: Solid

Analysis Batch: 897

Client Sample ID: BH-21 (6')

Prep Type: Total/NA

Prep Batch: 892

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-426-21 MSD

Matrix: Solid

Analysis Batch: 897

Client Sample ID: BH-21 (6')

Prep Type: Total/NA

Prep Batch: 892

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	<49.9	U	1000	1075		mg/Kg		108	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	898.3		mg/Kg		88	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: MB 880-941/1-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 941

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		03/27/21 10:06	03/28/21 14:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 14:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 14:41	1
Total TPH	<50.0	U	50.0		mg/Kg		03/27/21 10:06	03/28/21 14:41	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	105		70 - 130	03/27/21 10:06	03/28/21 14:41	1
o-Terphenyl	95		70 - 130	03/27/21 10:06	03/28/21 14:41	1

Lab Sample ID: LCS 880-941/2-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1136		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	1000	902.2		mg/Kg		90	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	85		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-941/3-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1136		mg/Kg		114	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	903.0		mg/Kg		90	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	107		70 - 130						
o-Terphenyl	87		70 - 130						

Lab Sample ID: 890-426-41 MS

Matrix: Solid

Analysis Batch: 965

Client Sample ID: BH-41 (6')

Prep Type: Total/NA

Prep Batch: 941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1110		mg/Kg		111	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1000		mg/Kg		100	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	105		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: 890-426-41 MSD

Matrix: Solid

Analysis Batch: 965

Client Sample ID: BH-41 (6')

Prep Type: Total/NA

Prep Batch: 941

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	<49.9	U	998	1095		mg/Kg		110	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	971.4		mg/Kg		97	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	71		70 - 130								

Lab Sample ID: MB 880-942/1-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 942

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	183.9		50.0		mg/Kg		03/27/21 10:21	03/29/21 00:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 00:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/27/21 10:21	03/29/21 00:11	1
Total TPH	183.9		50.0		mg/Kg		03/27/21 10:21	03/29/21 00:11	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-942/1-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 942

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	03/27/21 10:21	03/29/21 00:11	1
o-Terphenyl	96		70 - 130	03/27/21 10:21	03/29/21 00:11	1

Lab Sample ID: LCS 880-942/2-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1183		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	966.5		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: LCSD 880-942/3-A

Matrix: Solid

Analysis Batch: 965

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1186		mg/Kg		119	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	958.3		mg/Kg		96	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-426-61 MS

Matrix: Solid

Analysis Batch: 965

Client Sample ID: BH-61 (5')

Prep Type: Total/NA

Prep Batch: 942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	1000	1191		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	994.4		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	82		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-61 MSD

Matrix: Solid

Analysis Batch: 965

Client Sample ID: BH-61 (5')

Prep Type: Total/NA

Prep Batch: 942

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	<49.9	U F1	998	1373	F1	mg/Kg		138	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1124		mg/Kg		113	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	124		70 - 130								
o-Terphenyl	84		70 - 130								

Lab Sample ID: MB 880-982/1-A

Matrix: Solid

Analysis Batch: 992

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 982

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	203.0		50.0		mg/Kg		03/29/21 08:38	03/29/21 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 12:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:38	03/29/21 12:07	1
Total TPH	203.0		50.0		mg/Kg		03/29/21 08:38	03/29/21 12:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/29/21 08:38	03/29/21 12:07	1
o-Terphenyl	107		70 - 130				03/29/21 08:38	03/29/21 12:07	1

Lab Sample ID: LCS 880-982/2-A

Matrix: Solid

Analysis Batch: 992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1166		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	991.7		mg/Kg		99	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: LCSD 880-982/3-A

Matrix: Solid

Analysis Batch: 992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 982

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1264		mg/Kg		126	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1039		mg/Kg		104	70 - 130	5	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-982/3-A

Matrix: Solid

Analysis Batch: 992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 982

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-426-81 MS

Matrix: Solid

Analysis Batch: 992

Client Sample ID: BH-81 (5')

Prep Type: Total/NA

Prep Batch: 982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1185		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1027		mg/Kg		103	70 - 130
Surrogate	%Recovery	Qualifier	Limits	MS	MS				
1-Chlorooctane	104		70 - 130						
o-Terphenyl	86		70 - 130						

Lab Sample ID: 890-426-81 MSD

Matrix: Solid

Analysis Batch: 992

Client Sample ID: BH-81 (5')

Prep Type: Total/NA

Prep Batch: 982

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	<49.9	U	1000	1223		mg/Kg		122	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1078		mg/Kg		108	70 - 130	5	20
Surrogate	%Recovery	Qualifier	Limits	MSD	MSD						
1-Chlorooctane	106		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: MB 880-983/1-A

Matrix: Solid

Analysis Batch: 994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 983

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		03/29/21 08:57	03/29/21 12:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 12:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 12:07	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 08:57	03/29/21 12:07	1
Surrogate	%Recovery	Qualifier	Limits	MB	MB		Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/29/21 08:57	03/29/21 12:07	1
o-Terphenyl	121		70 - 130				03/29/21 08:57	03/29/21 12:07	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-983/2-A

Matrix: Solid

Analysis Batch: 994

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 983

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	1147		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Lab Sample ID: LCSD 880-983/3-A

Matrix: Solid

Analysis Batch: 994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 983

Analysis Data: 554							Trip Data: 555				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1255		mg/Kg		126	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1146		mg/Kg		115	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	115		70 - 130								

Lab Sample ID: 890-426-101 MS

Matrix: Solid

Analysis Batch: 994

Client Sample ID: BH-101 (5')

Prep Type: Total/NA

Prep Batch: 983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1298		mg/Kg		130	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1150		mg/Kg		113	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	109		70 - 130						

Lab Sample ID: 890-426-101 MSD

Matrix: Solid

Analysis Batch: 994

Client Sample ID: BH-101 (5')

Prep Type: Total/NA

Prep Batch: 983

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	<49.9	U	998	1266		mg/Kg	-	127	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1033		mg/Kg		102	70 - 130	11	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-101 MSD

Matrix: Solid

Analysis Batch: 994

Client Sample ID: BH-101 (5')

Prep Type: Total/NA

Prep Batch: 983

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	98		70 - 130

Lab Sample ID: MB 880-989/1-A

Matrix: Solid

Analysis Batch: 996

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 989

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 13:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 13:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 13:35	1
Total TPH	<50.0	U	50.0		mg/Kg		03/29/21 10:13	03/29/21 13:35	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier					
1-Chlorooctane	104		70 - 130	03/29/21 10:13	03/29/21 13:35	1
<i>o</i> -Terphenyl	114		70 - 130	03/29/21 10:13	03/29/21 13:35	1

Lab Sample ID: LCS 880-989/2-A

Matrix: Solid

Analysis Batch: 996

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1041		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.5		mg/Kg		92	70 - 130

Surrogate	LCS	LCS	Limits
%Recovery	Qualifier		
1-Chlorooctane	105		70 - 130
<i>o</i> -Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-989/3-A

Matrix: Solid

Analysis Batch: 996

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 989

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	981.3		mg/Kg		98	70 - 130	7	20

Surrogate	LCSD	LCSD	Limits
%Recovery	Qualifier		
1-Chlorooctane	112		70 - 130
<i>o</i> -Terphenyl	106		70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

Lab Sample ID: 890-426-121 MS

Matrix: Solid

Analysis Batch: 996

Client Sample ID: SW-18 (5')

Prep Type: Total/NA

Prep Batch: 989

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	1117		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1016		mg/Kg		102	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	109		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: 890-426-121 MSD

Matrix: Solid

Analysis Batch: 996

Client Sample ID: SW-18 (5')

Prep Type: Total/NA

Prep Batch: 989

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	<49.9	U	998	1059		mg/Kg		106	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	992.9		mg/Kg		99	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	106		70 - 130								
o-Terphenyl	95		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-900/1-A

Matrix: Solid

Analysis Batch: 1043

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			03/31/21 08:56	1

Lab Sample ID: LCS 880-900/2-A

Matrix: Solid

Analysis Batch: 1043

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.4		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-900/3-A

Matrix: Solid

Analysis Batch: 1043

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	239.2		mg/Kg		96	90 - 110	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-426-107 MS

Matrix: Solid

Analysis Batch: 1043

Client Sample ID: SW-4 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	71.0		249	320.0		mg/Kg		100	90 - 110

Lab Sample ID: 890-426-107 MSD

Matrix: Solid

Analysis Batch: 1043

Client Sample ID: SW-4 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	71.0		249	311.0		mg/Kg		96	90 - 110	3	20

Lab Sample ID: 890-426-122 MS

Matrix: Solid

Analysis Batch: 1043

Client Sample ID: SW-19 (7')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	73.0		249	319.4		mg/Kg		99	90 - 110

Lab Sample ID: 890-426-122 MSD

Matrix: Solid

Analysis Batch: 1043

Client Sample ID: SW-19 (7')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	73.0		249	320.7		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-901/1-A

Matrix: Solid

Analysis Batch: 1044

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			03/31/21 13:38	1

Lab Sample ID: LCS 880-901/2-A

Matrix: Solid

Analysis Batch: 1044

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	251.0		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-901/3-A

Matrix: Solid

Analysis Batch: 1044

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	248.9		mg/Kg		100	90 - 110	1	20

Lab Sample ID: 890-426-7 MS

Matrix: Solid

Analysis Batch: 1044

Client Sample ID: BH-7 (3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	72.3		251	332.4		mg/Kg		104	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-426-7 MSD

Matrix: Solid

Analysis Batch: 1044

Client Sample ID: BH-7 (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	72.3		251	330.8		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-426-17 MS

Matrix: Solid

Analysis Batch: 1044

Client Sample ID: BH-17 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	208		248	444.2		mg/Kg		95	90 - 110		

Lab Sample ID: 890-426-17 MSD

Matrix: Solid

Analysis Batch: 1044

Client Sample ID: BH-17 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	208		248	447.7		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-1011/1-A

Matrix: Solid

Analysis Batch: 1045

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			03/31/21 08:52	1

Lab Sample ID: LCS 880-1011/2-A

Matrix: Solid

Analysis Batch: 1045

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	250.0		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-1011/3-A

Matrix: Solid

Analysis Batch: 1045

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	251.1		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-426-27 MS

Matrix: Solid

Analysis Batch: 1045

Client Sample ID: BH-27 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	77.3	F1	249	359.6	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 890-426-27 MSD

Matrix: Solid

Analysis Batch: 1045

Client Sample ID: BH-27 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	77.3	F1	249	359.0	F1	mg/Kg		113	90 - 110	0	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-426-37 MS

Matrix: Solid

Analysis Batch: 1045

Client Sample ID: BH-37 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	249	F1	253	538.1	F1	mg/Kg		115	90 - 110

Lab Sample ID: 890-426-37 MSD

Matrix: Solid

Analysis Batch: 1045

Client Sample ID: BH-37 (6')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	249	F1	253	538.5	F1	mg/Kg		115	90 - 110	0	20

Lab Sample ID: MB 880-1012/1-A

Matrix: Solid

Analysis Batch: 1046

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			03/30/21 02:37	1

Lab Sample ID: LCS 880-1012/2-A

Matrix: Solid

Analysis Batch: 1046

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.6		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-1012/3-A

Matrix: Solid

Analysis Batch: 1046

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	270.4		mg/Kg		108	90 - 110	6	20

Lab Sample ID: 890-426-47 MS

Matrix: Solid

Analysis Batch: 1046

Client Sample ID: BH-47 (3.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15.5	F1	253	304.3	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-426-47 MSD

Matrix: Solid

Analysis Batch: 1046

Client Sample ID: BH-47 (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	15.5	F1	253	284.5		mg/Kg		107	90 - 110	7	20

Lab Sample ID: 890-426-57 MS

Matrix: Solid

Analysis Batch: 1046

Client Sample ID: BH-57 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.28		249	248.7		mg/Kg		97	90 - 110

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-426-57 MSD

Matrix: Solid

Analysis Batch: 1046

Client Sample ID: BH-57 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.28		249	248.6		mg/Kg		97	90 - 110	0	20

Lab Sample ID: MB 880-1014/1-A

Matrix: Solid

Analysis Batch: 1047

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			03/30/21 05:34	1

Lab Sample ID: LCS 880-1014/2-A

Matrix: Solid

Analysis Batch: 1047

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	254.3		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-1014/3-A

Matrix: Solid

Analysis Batch: 1047

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	272.0		mg/Kg		109	90 - 110	7	20

Lab Sample ID: 890-426-67 MS

Matrix: Solid

Analysis Batch: 1047

Client Sample ID: BH-67 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.65	F1	248	276.2		mg/Kg		108	90 - 110

Lab Sample ID: 890-426-67 MSD

Matrix: Solid

Analysis Batch: 1047

Client Sample ID: BH-67 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	7.65	F1	248	283.1	F1	mg/Kg		111	90 - 110	2	20

Lab Sample ID: 890-426-77 MS

Matrix: Solid

Analysis Batch: 1047

Client Sample ID: BH-77 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	97.4		250	342.6		mg/Kg		98	90 - 110

Lab Sample ID: 890-426-77 MSD

Matrix: Solid

Analysis Batch: 1047

Client Sample ID: BH-77 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	97.4		250	347.6		mg/Kg		100	90 - 110	1	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1015/1-A

Matrix: Solid

Analysis Batch: 1145

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			04/01/21 10:13	1

Lab Sample ID: LCS 880-1015/2-A

Matrix: Solid

Analysis Batch: 1145

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.6		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-1015/3-A

Matrix: Solid

Analysis Batch: 1145

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	232.2		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 890-426-87 MS

Matrix: Solid

Analysis Batch: 1145

Client Sample ID: BH-87 (7')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	13.2		250	266.4		mg/Kg		101	90 - 110

Lab Sample ID: 890-426-87 MSD

Matrix: Solid

Analysis Batch: 1145

Client Sample ID: BH-87 (7')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	13.2		250	266.8		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-426-97 MS

Matrix: Solid

Analysis Batch: 1145

Client Sample ID: BH-97 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	246		250	496.3		mg/Kg		100	90 - 110

Lab Sample ID: 890-426-97 MSD

Matrix: Solid

Analysis Batch: 1145

Client Sample ID: BH-97 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	246		250	497.4		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-1259/1-A

Matrix: Solid

Analysis Batch: 1279

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			04/04/21 00:33	1

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QC Sample Results

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-1259/2-A

Matrix: Solid

Analysis Batch: 1279

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	266.9		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-1259/3-A

Matrix: Solid

Analysis Batch: 1279

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	266.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-899/1-A

Matrix: Solid

Analysis Batch: 987

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			03/29/21 10:41	1

Lab Sample ID: LCS 880-899/2-A

Matrix: Solid

Analysis Batch: 987

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	263.5		mg/Kg		105	90 - 110

Lab Sample ID: LCSD 880-899/3-A

Matrix: Solid

Analysis Batch: 987

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	262.9		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-426-109 MS

Matrix: Solid

Analysis Batch: 987

Client Sample ID: SW-6 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6.18		249	277.7		mg/Kg		109	90 - 110

Lab Sample ID: 890-426-109 MSD

Matrix: Solid

Analysis Batch: 987

Client Sample ID: SW-6 (5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6.18		249	271.4		mg/Kg		106	90 - 110	2	20

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC VOA

Prep Batch: 915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Total/NA	Solid	5035	
890-426-2	BH-2 (3.5')	Total/NA	Solid	5035	
890-426-3	BH-3 (3.5')	Total/NA	Solid	5035	
890-426-4	BH-4 (3.5')	Total/NA	Solid	5035	
890-426-5	BH-5 (3.5')	Total/NA	Solid	5035	
890-426-6	BH-6 (3.5')	Total/NA	Solid	5035	
890-426-7	BH-7 (3.5')	Total/NA	Solid	5035	
890-426-8	BH-8 (3.5')	Total/NA	Solid	5035	
890-426-9	BH-9 (3.5')	Total/NA	Solid	5035	
890-426-10	BH-10 (3.5')	Total/NA	Solid	5035	
890-426-11	BH-11 (5')	Total/NA	Solid	5035	

Prep Batch: 917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-12	BH-12 (5')	Total/NA	Solid	5035	
890-426-13	BH-13 (5')	Total/NA	Solid	5035	
890-426-14	BH-14 (5')	Total/NA	Solid	5035	
890-426-15	BH-15 (5')	Total/NA	Solid	5035	
890-426-16	BH-16 (5')	Total/NA	Solid	5035	
890-426-17	BH-17 (5')	Total/NA	Solid	5035	
890-426-18	BH-18 (5')	Total/NA	Solid	5035	
890-426-19	BH-19 (5')	Total/NA	Solid	5035	
890-426-20	BH-20 (6')	Total/NA	Solid	5035	
890-426-21	BH-21 (6')	Total/NA	Solid	5035	
890-426-22	BH-22 (6')	Total/NA	Solid	5035	
890-426-23	BH-23 (6')	Total/NA	Solid	5035	
890-426-24	BH-24 (6')	Total/NA	Solid	5035	
890-426-25	BH-25 (6')	Total/NA	Solid	5035	
890-426-26	BH-26 (6')	Total/NA	Solid	5035	
890-426-27	BH-27 (6')	Total/NA	Solid	5035	
890-426-28	BH-28 (6.5')	Total/NA	Solid	5035	
890-426-29	BH-29 (6.5')	Total/NA	Solid	5035	
890-426-30	BH-30 (6.5')	Total/NA	Solid	5035	
890-426-31	BH-31 (6.5')	Total/NA	Solid	5035	
MB 880-917/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-917/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-917/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-426-12 MS	BH-12 (5')	Total/NA	Solid	5035	
890-426-12 MSD	BH-12 (5')	Total/NA	Solid	5035	

Prep Batch: 920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-32	BH-32 (6.5')	Total/NA	Solid	5035	
890-426-33	BH-33 (6.5')	Total/NA	Solid	5035	
890-426-34	BH-34 (5')	Total/NA	Solid	5035	
890-426-35	BH-35 (5')	Total/NA	Solid	5035	
890-426-36	BH-36 (5')	Total/NA	Solid	5035	
890-426-37	BH-37 (6')	Total/NA	Solid	5035	
890-426-38	BH-38 (6')	Total/NA	Solid	5035	
890-426-39	BH-39 (6')	Total/NA	Solid	5035	
890-426-40	BH-40 (6')	Total/NA	Solid	5035	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 920 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-41	BH-41 (6')	Total/NA	Solid	5035	
890-426-42	BH-42 (6')	Total/NA	Solid	5035	
890-426-43	BH-43 (6')	Total/NA	Solid	5035	
890-426-44	BH-44 (6')	Total/NA	Solid	5035	
890-426-45	BH-45 (6')	Total/NA	Solid	5035	
890-426-46	BH-46 (3.5')	Total/NA	Solid	5035	
890-426-47	BH-47 (3.5')	Total/NA	Solid	5035	
890-426-48	BH-48 (5')	Total/NA	Solid	5035	
890-426-49	BH-49 (5')	Total/NA	Solid	5035	
890-426-50	BH-50 (5')	Total/NA	Solid	5035	
890-426-51	BH-51 (5')	Total/NA	Solid	5035	
MB 880-920/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-920/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-920/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-426-32 MS	BH-32 (6.5')	Total/NA	Solid	5035	
890-426-32 MSD	BH-32 (6.5')	Total/NA	Solid	5035	

Prep Batch: 922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-52	BH-52 (5')	Total/NA	Solid	5035	
890-426-53	BH-53 (5')	Total/NA	Solid	5035	
890-426-54	BH-54 (5')	Total/NA	Solid	5035	
890-426-55	BH-55 (5')	Total/NA	Solid	5035	
890-426-56	BH-56 (5')	Total/NA	Solid	5035	
890-426-57	BH-57 (5')	Total/NA	Solid	5035	
890-426-58	BH-58 (5')	Total/NA	Solid	5035	
890-426-59	BH-59 (5')	Total/NA	Solid	5035	
890-426-60	BH-60 (5')	Total/NA	Solid	5035	
890-426-61	BH-61 (5')	Total/NA	Solid	5035	
890-426-62	BH-62 (5')	Total/NA	Solid	5035	
890-426-63	BH-63 (5')	Total/NA	Solid	5035	
890-426-64	BH-64 (5')	Total/NA	Solid	5035	
890-426-65	BH-65 (5')	Total/NA	Solid	5035	
890-426-66	BH-66 (5')	Total/NA	Solid	5035	
890-426-67	BH-67 (5')	Total/NA	Solid	5035	
890-426-68	BH-68 (5')	Total/NA	Solid	5035	
890-426-69	BH-69 (5')	Total/NA	Solid	5035	
890-426-70	BH-70 (5')	Total/NA	Solid	5035	
890-426-71	BH-71 (5')	Total/NA	Solid	5035	
MB 880-922/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-922/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-922/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-426-52 MS	BH-52 (5')	Total/NA	Solid	5035	
890-426-52 MSD	BH-52 (5')	Total/NA	Solid	5035	

Prep Batch: 923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-72	BH-72 (5')	Total/NA	Solid	5035	
890-426-73	BH-73 (5')	Total/NA	Solid	5035	
890-426-74	BH-74 (5')	Total/NA	Solid	5035	
890-426-75	BH-75 (5')	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 923 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-76	BH-76 (5')	Total/NA	Solid	5035	
890-426-77	BH-77 (5')	Total/NA	Solid	5035	
890-426-78	BH-78 (5')	Total/NA	Solid	5035	
890-426-79	BH-79 (5')	Total/NA	Solid	5035	
890-426-80	BH-80 (5')	Total/NA	Solid	5035	
890-426-81	BH-81 (5')	Total/NA	Solid	5035	
890-426-82	BH-82 (5')	Total/NA	Solid	5035	
890-426-83	BH-83 (5')	Total/NA	Solid	5035	
890-426-84	BH-84 (5')	Total/NA	Solid	5035	
890-426-85	BH-85 (5')	Total/NA	Solid	5035	
890-426-86	BH-86 (7')	Total/NA	Solid	5035	
890-426-87	BH-87 (7')	Total/NA	Solid	5035	
890-426-88	BH-88 (7')	Total/NA	Solid	5035	
890-426-89	BH-89 (7')	Total/NA	Solid	5035	
890-426-90	BH-90 (7')	Total/NA	Solid	5035	
890-426-91	BH-91 (7')	Total/NA	Solid	5035	
MB 880-923/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-923/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-923/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-426-72 MS	BH-72 (5')	Total/NA	Solid	5035	
890-426-72 MSD	BH-72 (5')	Total/NA	Solid	5035	

Prep Batch: 924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-92	BH-92 (7')	Total/NA	Solid	5035	
890-426-93	BH-93 (7')	Total/NA	Solid	5035	
890-426-94	BH-94 (7')	Total/NA	Solid	5035	
890-426-95	BH-95 (5')	Total/NA	Solid	5035	
890-426-96	BH-96 (5')	Total/NA	Solid	5035	
890-426-97	BH-97 (5')	Total/NA	Solid	5035	
890-426-98	BH-98 (5')	Total/NA	Solid	5035	
890-426-99	BH-99 (5')	Total/NA	Solid	5035	
890-426-100	BH-100 (5')	Total/NA	Solid	5035	
890-426-101	BH-101 (5')	Total/NA	Solid	5035	
890-426-102	BH-102 (5')	Total/NA	Solid	5035	
890-426-103	BH-103 (5')	Total/NA	Solid	5035	
890-426-104	SW-1 (3.5')	Total/NA	Solid	5035	
890-426-105	SW-2 (3.5')	Total/NA	Solid	5035	
890-426-106	SW-3 (3.5')	Total/NA	Solid	5035	
890-426-107	SW-4 (5')	Total/NA	Solid	5035	
890-426-108	SW-5 (5')	Total/NA	Solid	5035	
890-426-109	SW-6 (5')	Total/NA	Solid	5035	
890-426-110	SW-7 (6')	Total/NA	Solid	5035	
890-426-111	SW-8 (6.5')	Total/NA	Solid	5035	
890-426-A-92-C MS	890-426-A-92-C MS	Total/NA	Solid	5035	
890-426-A-92-C MSD	890-426-A-92-C MSD	Total/NA	Solid	5035	

Prep Batch: 925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-112	SW-9 (5')	Total/NA	Solid	5035	
890-426-113	SW-10 (5')	Total/NA	Solid	5035	

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QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC VOA (Continued)

Prep Batch: 925 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-114	SW-11 (5')	Total/NA	Solid	5035	
890-426-115	SW-12 (5')	Total/NA	Solid	5035	
890-426-116	SW-13 (6.5')	Total/NA	Solid	5035	
890-426-117	SW-14 (5')	Total/NA	Solid	5035	
890-426-118	SW-15 (5')	Total/NA	Solid	5035	
890-426-119	SW-16 (5')	Total/NA	Solid	5035	
890-426-120	SW-17 (5')	Total/NA	Solid	5035	
890-426-121	SW-18 (5')	Total/NA	Solid	5035	
890-426-122	SW-19 (7')	Total/NA	Solid	5035	
890-426-123	SW-20 (7')	Total/NA	Solid	5035	
890-426-124	SW-21 (7')	Total/NA	Solid	5035	
890-426-125	SW-22 (7')	Total/NA	Solid	5035	
890-426-126	SW-23 (5')	Total/NA	Solid	5035	
890-426-127	SW-24 (5')	Total/NA	Solid	5035	
890-426-128	SW-25 (5')	Total/NA	Solid	5035	
890-426-129	SW-26 (5')	Total/NA	Solid	5035	
890-426-130	SW-27 (5')	Total/NA	Solid	5035	
890-426-131	SW-28 (6')	Total/NA	Solid	5035	
890-426-112 MS	SW-9 (5')	Total/NA	Solid	5035	
890-426-112 MSD	SW-9 (5')	Total/NA	Solid	5035	

Analysis Batch: 936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Total/NA	Solid	8021B	915
890-426-2	BH-2 (3.5')	Total/NA	Solid	8021B	915
890-426-3	BH-3 (3.5')	Total/NA	Solid	8021B	915
890-426-4	BH-4 (3.5')	Total/NA	Solid	8021B	915
890-426-5	BH-5 (3.5')	Total/NA	Solid	8021B	915
890-426-6	BH-6 (3.5')	Total/NA	Solid	8021B	915
890-426-7	BH-7 (3.5')	Total/NA	Solid	8021B	915
890-426-8	BH-8 (3.5')	Total/NA	Solid	8021B	915
890-426-9	BH-9 (3.5')	Total/NA	Solid	8021B	915
890-426-10	BH-10 (3.5')	Total/NA	Solid	8021B	915
890-426-11	BH-11 (5')	Total/NA	Solid	8021B	915
MB 880-936/41	Method Blank	Total/NA	Solid	8021B	
MB 880-936/9	Method Blank	Total/NA	Solid	8021B	
LCS 880-936/35	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-936/36	Lab Control Sample Dup	Total/NA	Solid	8021B	

Analysis Batch: 949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-12	BH-12 (5')	Total/NA	Solid	8021B	917
890-426-13	BH-13 (5')	Total/NA	Solid	8021B	917
890-426-14	BH-14 (5')	Total/NA	Solid	8021B	917
890-426-15	BH-15 (5')	Total/NA	Solid	8021B	917
890-426-16	BH-16 (5')	Total/NA	Solid	8021B	917
890-426-17	BH-17 (5')	Total/NA	Solid	8021B	917
890-426-18	BH-18 (5')	Total/NA	Solid	8021B	917
890-426-19	BH-19 (5')	Total/NA	Solid	8021B	917
890-426-20	BH-20 (6')	Total/NA	Solid	8021B	917
890-426-21	BH-21 (6')	Total/NA	Solid	8021B	917

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-22	BH-22 (6')	Total/NA	Solid	8021B	917
890-426-23	BH-23 (6')	Total/NA	Solid	8021B	917
890-426-24	BH-24 (6')	Total/NA	Solid	8021B	917
890-426-25	BH-25 (6')	Total/NA	Solid	8021B	917
890-426-26	BH-26 (6')	Total/NA	Solid	8021B	917
890-426-27	BH-27 (6')	Total/NA	Solid	8021B	917
890-426-28	BH-28 (6.5')	Total/NA	Solid	8021B	917
890-426-29	BH-29 (6.5')	Total/NA	Solid	8021B	917
890-426-30	BH-30 (6.5')	Total/NA	Solid	8021B	917
890-426-31	BH-31 (6.5')	Total/NA	Solid	8021B	917
890-426-32	BH-32 (6.5')	Total/NA	Solid	8021B	920
890-426-33	BH-33 (6.5')	Total/NA	Solid	8021B	920
890-426-34	BH-34 (5')	Total/NA	Solid	8021B	920
890-426-35	BH-35 (5')	Total/NA	Solid	8021B	920
890-426-36	BH-36 (5')	Total/NA	Solid	8021B	920
890-426-37	BH-37 (6')	Total/NA	Solid	8021B	920
890-426-38	BH-38 (6')	Total/NA	Solid	8021B	920
890-426-39	BH-39 (6')	Total/NA	Solid	8021B	920
890-426-40	BH-40 (6')	Total/NA	Solid	8021B	920
890-426-41	BH-41 (6')	Total/NA	Solid	8021B	920
890-426-42	BH-42 (6')	Total/NA	Solid	8021B	920
890-426-43	BH-43 (6')	Total/NA	Solid	8021B	920
890-426-44	BH-44 (6')	Total/NA	Solid	8021B	920
890-426-45	BH-45 (6')	Total/NA	Solid	8021B	920
890-426-46	BH-46 (3.5')	Total/NA	Solid	8021B	920
890-426-47	BH-47 (3.5')	Total/NA	Solid	8021B	920
890-426-48	BH-48 (5')	Total/NA	Solid	8021B	920
890-426-49	BH-49 (5')	Total/NA	Solid	8021B	920
890-426-50	BH-50 (5')	Total/NA	Solid	8021B	920
890-426-51	BH-51 (5')	Total/NA	Solid	8021B	920
MB 880-917/5-A	Method Blank	Total/NA	Solid	8021B	917
MB 880-920/5-A	Method Blank	Total/NA	Solid	8021B	920
LCS 880-917/1-A	Lab Control Sample	Total/NA	Solid	8021B	917
LCS 880-920/1-A	Lab Control Sample	Total/NA	Solid	8021B	920
LCSD 880-917/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	917
LCSD 880-920/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	920
890-426-12 MS	BH-12 (5')	Total/NA	Solid	8021B	917
890-426-12 MSD	BH-12 (5')	Total/NA	Solid	8021B	917
890-426-32 MS	BH-32 (6.5')	Total/NA	Solid	8021B	920
890-426-32 MSD	BH-32 (6.5')	Total/NA	Solid	8021B	920

Analysis Batch: 954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-52	BH-52 (5')	Total/NA	Solid	8021B	922
890-426-53	BH-53 (5')	Total/NA	Solid	8021B	922
890-426-54	BH-54 (5')	Total/NA	Solid	8021B	922
890-426-55	BH-55 (5')	Total/NA	Solid	8021B	922
890-426-56	BH-56 (5')	Total/NA	Solid	8021B	922
890-426-57	BH-57 (5')	Total/NA	Solid	8021B	922
890-426-58	BH-58 (5')	Total/NA	Solid	8021B	922
890-426-59	BH-59 (5')	Total/NA	Solid	8021B	922

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC VOA (Continued)

Analysis Batch: 954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-60	BH-60 (5')	Total/NA	Solid	8021B	922
890-426-61	BH-61 (5')	Total/NA	Solid	8021B	922
890-426-62	BH-62 (5')	Total/NA	Solid	8021B	922
890-426-63	BH-63 (5')	Total/NA	Solid	8021B	922
890-426-64	BH-64 (5')	Total/NA	Solid	8021B	922
890-426-65	BH-65 (5')	Total/NA	Solid	8021B	922
890-426-66	BH-66 (5')	Total/NA	Solid	8021B	922
890-426-67	BH-67 (5')	Total/NA	Solid	8021B	922
890-426-68	BH-68 (5')	Total/NA	Solid	8021B	922
890-426-69	BH-69 (5')	Total/NA	Solid	8021B	922
890-426-70	BH-70 (5')	Total/NA	Solid	8021B	922
890-426-71	BH-71 (5')	Total/NA	Solid	8021B	922
890-426-72	BH-72 (5')	Total/NA	Solid	8021B	923
890-426-73	BH-73 (5')	Total/NA	Solid	8021B	923
890-426-74	BH-74 (5')	Total/NA	Solid	8021B	923
890-426-75	BH-75 (5')	Total/NA	Solid	8021B	923
890-426-76	BH-76 (5')	Total/NA	Solid	8021B	923
890-426-77	BH-77 (5')	Total/NA	Solid	8021B	923
890-426-78	BH-78 (5')	Total/NA	Solid	8021B	923
890-426-79	BH-79 (5')	Total/NA	Solid	8021B	923
890-426-80	BH-80 (5')	Total/NA	Solid	8021B	923
890-426-81	BH-81 (5')	Total/NA	Solid	8021B	923
890-426-82	BH-82 (5')	Total/NA	Solid	8021B	923
890-426-83	BH-83 (5')	Total/NA	Solid	8021B	923
890-426-84	BH-84 (5')	Total/NA	Solid	8021B	923
890-426-85	BH-85 (5')	Total/NA	Solid	8021B	923
890-426-86	BH-86 (7')	Total/NA	Solid	8021B	923
890-426-87	BH-87 (7')	Total/NA	Solid	8021B	923
890-426-88	BH-88 (7')	Total/NA	Solid	8021B	923
890-426-89	BH-89 (7')	Total/NA	Solid	8021B	923
890-426-90	BH-90 (7')	Total/NA	Solid	8021B	923
890-426-91	BH-91 (7')	Total/NA	Solid	8021B	923
MB 880-922/5-A	Method Blank	Total/NA	Solid	8021B	922
MB 880-923/5-A	Method Blank	Total/NA	Solid	8021B	923
MB 880-955/5-A	Method Blank	Total/NA	Solid	8021B	955
LCS 880-922/1-A	Lab Control Sample	Total/NA	Solid	8021B	922
LCS 880-923/1-A	Lab Control Sample	Total/NA	Solid	8021B	923
LCSD 880-922/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	922
LCSD 880-923/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	923
890-426-52 MS	BH-52 (5')	Total/NA	Solid	8021B	922
890-426-52 MSD	BH-52 (5')	Total/NA	Solid	8021B	922
890-426-72 MS	BH-72 (5')	Total/NA	Solid	8021B	923
890-426-72 MSD	BH-72 (5')	Total/NA	Solid	8021B	923

Prep Batch: 955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-955/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-962/5-A	Method Blank	Total/NA	Solid	5035	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

GC VOA

Analysis Batch: 963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-92	BH-92 (7')	Total/NA	Solid	8021B	924
890-426-93	BH-93 (7')	Total/NA	Solid	8021B	924
890-426-94	BH-94 (7')	Total/NA	Solid	8021B	924
890-426-95	BH-95 (5')	Total/NA	Solid	8021B	924
890-426-96	BH-96 (5')	Total/NA	Solid	8021B	924
890-426-97	BH-97 (5')	Total/NA	Solid	8021B	924
890-426-98	BH-98 (5')	Total/NA	Solid	8021B	924
890-426-99	BH-99 (5')	Total/NA	Solid	8021B	924
890-426-100	BH-100 (5')	Total/NA	Solid	8021B	924
890-426-101	BH-101 (5')	Total/NA	Solid	8021B	924
890-426-102	BH-102 (5')	Total/NA	Solid	8021B	924
890-426-103	BH-103 (5')	Total/NA	Solid	8021B	924
890-426-104	SW-1 (3.5')	Total/NA	Solid	8021B	924
890-426-105	SW-2 (3.5')	Total/NA	Solid	8021B	924
890-426-106	SW-3 (3.5')	Total/NA	Solid	8021B	924
890-426-107	SW-4 (5')	Total/NA	Solid	8021B	924
890-426-108	SW-5 (5')	Total/NA	Solid	8021B	924
890-426-109	SW-6 (5')	Total/NA	Solid	8021B	924
890-426-110	SW-7 (6')	Total/NA	Solid	8021B	924
890-426-111	SW-8 (6.5')	Total/NA	Solid	8021B	924
890-426-112	SW-9 (5')	Total/NA	Solid	8021B	925
890-426-113	SW-10 (5')	Total/NA	Solid	8021B	925
890-426-114	SW-11 (5')	Total/NA	Solid	8021B	925
890-426-115	SW-12 (5')	Total/NA	Solid	8021B	925
890-426-116	SW-13 (6.5')	Total/NA	Solid	8021B	925
890-426-117	SW-14 (5')	Total/NA	Solid	8021B	925
890-426-118	SW-15 (5')	Total/NA	Solid	8021B	925
890-426-119	SW-16 (5')	Total/NA	Solid	8021B	925
890-426-120	SW-17 (5')	Total/NA	Solid	8021B	925
890-426-121	SW-18 (5')	Total/NA	Solid	8021B	925
890-426-122	SW-19 (7')	Total/NA	Solid	8021B	925
890-426-123	SW-20 (7')	Total/NA	Solid	8021B	925
890-426-124	SW-21 (7')	Total/NA	Solid	8021B	925
890-426-125	SW-22 (7')	Total/NA	Solid	8021B	925
890-426-126	SW-23 (5')	Total/NA	Solid	8021B	925
890-426-127	SW-24 (5')	Total/NA	Solid	8021B	925
890-426-128	SW-25 (5')	Total/NA	Solid	8021B	925
890-426-129	SW-26 (5')	Total/NA	Solid	8021B	925
890-426-130	SW-27 (5')	Total/NA	Solid	8021B	925
890-426-131	SW-28 (6')	Total/NA	Solid	8021B	925
MB 880-962/5-A	Method Blank	Total/NA	Solid	8021B	962
MB 880-963/105	Method Blank	Total/NA	Solid	8021B	
MB 880-963/73	Method Blank	Total/NA	Solid	8021B	
LCS 880-963/67	Lab Control Sample	Total/NA	Solid	8021B	
LCS 880-963/99	Lab Control Sample	Total/NA	Solid	8021B	
LCSD 880-963/100	Lab Control Sample Dup	Total/NA	Solid	8021B	
LCSD 880-963/68	Lab Control Sample Dup	Total/NA	Solid	8021B	
890-426-112 MS	SW-9 (5')	Total/NA	Solid	8021B	925
890-426-112 MSD	SW-9 (5')	Total/NA	Solid	8021B	925
890-426-A-92-C MS	890-426-A-92-C MS	Total/NA	Solid	8021B	924
890-426-A-92-C MSD	890-426-A-92-C MSD	Total/NA	Solid	8021B	924

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA

Prep Batch: 891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-2	BH-2 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-3	BH-3 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-4	BH-4 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-5	BH-5 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-6	BH-6 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-7	BH-7 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-8	BH-8 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-9	BH-9 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-10	BH-10 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-11	BH-11 (5')	Total/NA	Solid	8015NM Prep	
890-426-12	BH-12 (5')	Total/NA	Solid	8015NM Prep	
890-426-13	BH-13 (5')	Total/NA	Solid	8015NM Prep	
890-426-14	BH-14 (5')	Total/NA	Solid	8015NM Prep	
890-426-15	BH-15 (5')	Total/NA	Solid	8015NM Prep	
890-426-16	BH-16 (5')	Total/NA	Solid	8015NM Prep	
890-426-17	BH-17 (5')	Total/NA	Solid	8015NM Prep	
890-426-18	BH-18 (5')	Total/NA	Solid	8015NM Prep	
890-426-19	BH-19 (5')	Total/NA	Solid	8015NM Prep	
890-426-20	BH-20 (6')	Total/NA	Solid	8015NM Prep	
MB 880-891/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-891/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-1 MS	BH-1 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-1 MSD	BH-1 (3.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-21	BH-21 (6')	Total/NA	Solid	8015NM Prep	
890-426-22	BH-22 (6')	Total/NA	Solid	8015NM Prep	
890-426-23	BH-23 (6')	Total/NA	Solid	8015NM Prep	
890-426-24	BH-24 (6')	Total/NA	Solid	8015NM Prep	
890-426-25	BH-25 (6')	Total/NA	Solid	8015NM Prep	
890-426-26	BH-26 (6')	Total/NA	Solid	8015NM Prep	
890-426-27	BH-27 (6')	Total/NA	Solid	8015NM Prep	
890-426-28	BH-28 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-29	BH-29 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-30	BH-30 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-31	BH-31 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-32	BH-32 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-33	BH-33 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-34	BH-34 (5')	Total/NA	Solid	8015NM Prep	
890-426-35	BH-35 (5')	Total/NA	Solid	8015NM Prep	
890-426-36	BH-36 (5')	Total/NA	Solid	8015NM Prep	
890-426-37	BH-37 (6')	Total/NA	Solid	8015NM Prep	
890-426-38	BH-38 (6')	Total/NA	Solid	8015NM Prep	
890-426-39	BH-39 (6')	Total/NA	Solid	8015NM Prep	
890-426-40	BH-40 (6')	Total/NA	Solid	8015NM Prep	
MB 880-892/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-892/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 892 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-21 MS	BH-21 (6')	Total/NA	Solid	8015NM Prep	
890-426-21 MSD	BH-21 (6')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Total/NA	Solid	8015B NM	891
890-426-2	BH-2 (3.5')	Total/NA	Solid	8015B NM	891
890-426-3	BH-3 (3.5')	Total/NA	Solid	8015B NM	891
890-426-4	BH-4 (3.5')	Total/NA	Solid	8015B NM	891
890-426-5	BH-5 (3.5')	Total/NA	Solid	8015B NM	891
890-426-6	BH-6 (3.5')	Total/NA	Solid	8015B NM	891
890-426-7	BH-7 (3.5')	Total/NA	Solid	8015B NM	891
890-426-8	BH-8 (3.5')	Total/NA	Solid	8015B NM	891
890-426-9	BH-9 (3.5')	Total/NA	Solid	8015B NM	891
890-426-10	BH-10 (3.5')	Total/NA	Solid	8015B NM	891
890-426-11	BH-11 (5')	Total/NA	Solid	8015B NM	891
890-426-12	BH-12 (5')	Total/NA	Solid	8015B NM	891
890-426-13	BH-13 (5')	Total/NA	Solid	8015B NM	891
890-426-14	BH-14 (5')	Total/NA	Solid	8015B NM	891
890-426-15	BH-15 (5')	Total/NA	Solid	8015B NM	891
890-426-16	BH-16 (5')	Total/NA	Solid	8015B NM	891
890-426-17	BH-17 (5')	Total/NA	Solid	8015B NM	891
890-426-18	BH-18 (5')	Total/NA	Solid	8015B NM	891
890-426-19	BH-19 (5')	Total/NA	Solid	8015B NM	891
890-426-20	BH-20 (6')	Total/NA	Solid	8015B NM	891
MB 880-891/1-A	Method Blank	Total/NA	Solid	8015B NM	891
LCS 880-891/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	891
LCSD 880-891/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	891
890-426-1 MS	BH-1 (3.5')	Total/NA	Solid	8015B NM	891
890-426-1 MSD	BH-1 (3.5')	Total/NA	Solid	8015B NM	891

Analysis Batch: 897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-21	BH-21 (6')	Total/NA	Solid	8015B NM	892
890-426-22	BH-22 (6')	Total/NA	Solid	8015B NM	892
890-426-23	BH-23 (6')	Total/NA	Solid	8015B NM	892
890-426-24	BH-24 (6')	Total/NA	Solid	8015B NM	892
890-426-25	BH-25 (6')	Total/NA	Solid	8015B NM	892
890-426-26	BH-26 (6')	Total/NA	Solid	8015B NM	892
890-426-27	BH-27 (6')	Total/NA	Solid	8015B NM	892
890-426-28	BH-28 (6.5')	Total/NA	Solid	8015B NM	892
890-426-29	BH-29 (6.5')	Total/NA	Solid	8015B NM	892
890-426-30	BH-30 (6.5')	Total/NA	Solid	8015B NM	892
890-426-31	BH-31 (6.5')	Total/NA	Solid	8015B NM	892
890-426-32	BH-32 (6.5')	Total/NA	Solid	8015B NM	892
890-426-33	BH-33 (6.5')	Total/NA	Solid	8015B NM	892
890-426-34	BH-34 (5')	Total/NA	Solid	8015B NM	892
890-426-35	BH-35 (5')	Total/NA	Solid	8015B NM	892
890-426-36	BH-36 (5')	Total/NA	Solid	8015B NM	892
890-426-37	BH-37 (6')	Total/NA	Solid	8015B NM	892
890-426-38	BH-38 (6')	Total/NA	Solid	8015B NM	892

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-39	BH-39 (6')	Total/NA	Solid	8015B NM	892
890-426-40	BH-40 (6')	Total/NA	Solid	8015B NM	892
MB 880-892/1-A	Method Blank	Total/NA	Solid	8015B NM	892
LCS 880-892/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	892
LCSD 880-892/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	892
890-426-21 MS	BH-21 (6')	Total/NA	Solid	8015B NM	892
890-426-21 MSD	BH-21 (6')	Total/NA	Solid	8015B NM	892

Prep Batch: 941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-41	BH-41 (6')	Total/NA	Solid	8015NM Prep	
890-426-42	BH-42 (6')	Total/NA	Solid	8015NM Prep	
890-426-43	BH-43 (6')	Total/NA	Solid	8015NM Prep	
890-426-44	BH-44 (6')	Total/NA	Solid	8015NM Prep	
890-426-45	BH-45 (6')	Total/NA	Solid	8015NM Prep	
890-426-46	BH-46 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-47	BH-47 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-48	BH-48 (5')	Total/NA	Solid	8015NM Prep	
890-426-49	BH-49 (5')	Total/NA	Solid	8015NM Prep	
890-426-50	BH-50 (5')	Total/NA	Solid	8015NM Prep	
890-426-51	BH-51 (5')	Total/NA	Solid	8015NM Prep	
890-426-52	BH-52 (5')	Total/NA	Solid	8015NM Prep	
890-426-53	BH-53 (5')	Total/NA	Solid	8015NM Prep	
890-426-54	BH-54 (5')	Total/NA	Solid	8015NM Prep	
890-426-55	BH-55 (5')	Total/NA	Solid	8015NM Prep	
890-426-56	BH-56 (5')	Total/NA	Solid	8015NM Prep	
890-426-57	BH-57 (5')	Total/NA	Solid	8015NM Prep	
890-426-58	BH-58 (5')	Total/NA	Solid	8015NM Prep	
890-426-59	BH-59 (5')	Total/NA	Solid	8015NM Prep	
890-426-60	BH-60 (5')	Total/NA	Solid	8015NM Prep	
MB 880-941/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-941/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-41 MS	BH-41 (6')	Total/NA	Solid	8015NM Prep	
890-426-41 MSD	BH-41 (6')	Total/NA	Solid	8015NM Prep	

Prep Batch: 942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-61	BH-61 (5')	Total/NA	Solid	8015NM Prep	
890-426-62	BH-62 (5')	Total/NA	Solid	8015NM Prep	
890-426-63	BH-63 (5')	Total/NA	Solid	8015NM Prep	
890-426-64	BH-64 (5')	Total/NA	Solid	8015NM Prep	
890-426-65	BH-65 (5')	Total/NA	Solid	8015NM Prep	
890-426-66	BH-66 (5')	Total/NA	Solid	8015NM Prep	
890-426-67	BH-67 (5')	Total/NA	Solid	8015NM Prep	
890-426-68	BH-68 (5')	Total/NA	Solid	8015NM Prep	
890-426-69	BH-69 (5')	Total/NA	Solid	8015NM Prep	
890-426-70	BH-70 (5')	Total/NA	Solid	8015NM Prep	
890-426-71	BH-71 (5')	Total/NA	Solid	8015NM Prep	
890-426-72	BH-72 (5')	Total/NA	Solid	8015NM Prep	
890-426-73	BH-73 (5')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 942 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-74	BH-74 (5')	Total/NA	Solid	8015NM Prep	
890-426-75	BH-75 (5')	Total/NA	Solid	8015NM Prep	
890-426-76	BH-76 (5')	Total/NA	Solid	8015NM Prep	
890-426-77	BH-77 (5')	Total/NA	Solid	8015NM Prep	
890-426-78	BH-78 (5')	Total/NA	Solid	8015NM Prep	
890-426-79	BH-79 (5')	Total/NA	Solid	8015NM Prep	
890-426-80	BH-80 (5')	Total/NA	Solid	8015NM Prep	
MB 880-942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-61 MS	BH-61 (5')	Total/NA	Solid	8015NM Prep	
890-426-61 MSD	BH-61 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-41	BH-41 (6')	Total/NA	Solid	8015B NM	941
890-426-42	BH-42 (6')	Total/NA	Solid	8015B NM	941
890-426-43	BH-43 (6')	Total/NA	Solid	8015B NM	941
890-426-44	BH-44 (6')	Total/NA	Solid	8015B NM	941
890-426-45	BH-45 (6')	Total/NA	Solid	8015B NM	941
890-426-46	BH-46 (3.5')	Total/NA	Solid	8015B NM	941
890-426-47	BH-47 (3.5')	Total/NA	Solid	8015B NM	941
890-426-48	BH-48 (5')	Total/NA	Solid	8015B NM	941
890-426-49	BH-49 (5')	Total/NA	Solid	8015B NM	941
890-426-50	BH-50 (5')	Total/NA	Solid	8015B NM	941
890-426-51	BH-51 (5')	Total/NA	Solid	8015B NM	941
890-426-52	BH-52 (5')	Total/NA	Solid	8015B NM	941
890-426-53	BH-53 (5')	Total/NA	Solid	8015B NM	941
890-426-54	BH-54 (5')	Total/NA	Solid	8015B NM	941
890-426-55	BH-55 (5')	Total/NA	Solid	8015B NM	941
890-426-56	BH-56 (5')	Total/NA	Solid	8015B NM	941
890-426-57	BH-57 (5')	Total/NA	Solid	8015B NM	941
890-426-58	BH-58 (5')	Total/NA	Solid	8015B NM	941
890-426-59	BH-59 (5')	Total/NA	Solid	8015B NM	941
890-426-60	BH-60 (5')	Total/NA	Solid	8015B NM	941
890-426-61	BH-61 (5')	Total/NA	Solid	8015B NM	942
890-426-62	BH-62 (5')	Total/NA	Solid	8015B NM	942
890-426-63	BH-63 (5')	Total/NA	Solid	8015B NM	942
890-426-64	BH-64 (5')	Total/NA	Solid	8015B NM	942
890-426-65	BH-65 (5')	Total/NA	Solid	8015B NM	942
890-426-66	BH-66 (5')	Total/NA	Solid	8015B NM	942
890-426-67	BH-67 (5')	Total/NA	Solid	8015B NM	942
890-426-68	BH-68 (5')	Total/NA	Solid	8015B NM	942
890-426-69	BH-69 (5')	Total/NA	Solid	8015B NM	942
890-426-70	BH-70 (5')	Total/NA	Solid	8015B NM	942
890-426-71	BH-71 (5')	Total/NA	Solid	8015B NM	942
890-426-72	BH-72 (5')	Total/NA	Solid	8015B NM	942
890-426-73	BH-73 (5')	Total/NA	Solid	8015B NM	942
890-426-74	BH-74 (5')	Total/NA	Solid	8015B NM	942
890-426-75	BH-75 (5')	Total/NA	Solid	8015B NM	942
890-426-76	BH-76 (5')	Total/NA	Solid	8015B NM	942

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 965 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-77	BH-77 (5')	Total/NA	Solid	8015B NM	942
890-426-78	BH-78 (5')	Total/NA	Solid	8015B NM	942
890-426-79	BH-79 (5')	Total/NA	Solid	8015B NM	942
890-426-80	BH-80 (5')	Total/NA	Solid	8015B NM	942
MB 880-941/1-A	Method Blank	Total/NA	Solid	8015B NM	941
MB 880-942/1-A	Method Blank	Total/NA	Solid	8015B NM	942
LCS 880-941/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	941
LCS 880-942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	942
LCSD 880-941/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	941
LCSD 880-942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	942
890-426-41 MS	BH-41 (6')	Total/NA	Solid	8015B NM	941
890-426-41 MSD	BH-41 (6')	Total/NA	Solid	8015B NM	941
890-426-61 MS	BH-61 (5')	Total/NA	Solid	8015B NM	942
890-426-61 MSD	BH-61 (5')	Total/NA	Solid	8015B NM	942

Prep Batch: 982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-81	BH-81 (5')	Total/NA	Solid	8015NM Prep	
890-426-82	BH-82 (5')	Total/NA	Solid	8015NM Prep	
890-426-83	BH-83 (5')	Total/NA	Solid	8015NM Prep	
890-426-84	BH-84 (5')	Total/NA	Solid	8015NM Prep	
890-426-85	BH-85 (5')	Total/NA	Solid	8015NM Prep	
890-426-86	BH-86 (7')	Total/NA	Solid	8015NM Prep	
890-426-87	BH-87 (7')	Total/NA	Solid	8015NM Prep	
890-426-88	BH-88 (7')	Total/NA	Solid	8015NM Prep	
890-426-89	BH-89 (7')	Total/NA	Solid	8015NM Prep	
890-426-90	BH-90 (7')	Total/NA	Solid	8015NM Prep	
890-426-91	BH-91 (7')	Total/NA	Solid	8015NM Prep	
890-426-92	BH-92 (7')	Total/NA	Solid	8015NM Prep	
890-426-93	BH-93 (7')	Total/NA	Solid	8015NM Prep	
890-426-94	BH-94 (7')	Total/NA	Solid	8015NM Prep	
890-426-95	BH-95 (5')	Total/NA	Solid	8015NM Prep	
890-426-96	BH-96 (5')	Total/NA	Solid	8015NM Prep	
890-426-97	BH-97 (5')	Total/NA	Solid	8015NM Prep	
890-426-98	BH-98 (5')	Total/NA	Solid	8015NM Prep	
890-426-99	BH-99 (5')	Total/NA	Solid	8015NM Prep	
890-426-100	BH-100 (5')	Total/NA	Solid	8015NM Prep	
MB 880-982/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-982/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-982/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-81 MS	BH-81 (5')	Total/NA	Solid	8015NM Prep	
890-426-81 MSD	BH-81 (5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-101	BH-101 (5')	Total/NA	Solid	8015NM Prep	
890-426-102	BH-102 (5')	Total/NA	Solid	8015NM Prep	
890-426-103	BH-103 (5')	Total/NA	Solid	8015NM Prep	
890-426-104	SW-1 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-105	SW-2 (3.5')	Total/NA	Solid	8015NM Prep	
890-426-106	SW-3 (3.5')	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA (Continued)

Prep Batch: 983 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-107	SW-4 (5')	Total/NA	Solid	8015NM Prep	
890-426-108	SW-5 (5')	Total/NA	Solid	8015NM Prep	
890-426-109	SW-6 (5')	Total/NA	Solid	8015NM Prep	
890-426-110	SW-7 (6')	Total/NA	Solid	8015NM Prep	
890-426-111	SW-8 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-112	SW-9 (5')	Total/NA	Solid	8015NM Prep	
890-426-113	SW-10 (5')	Total/NA	Solid	8015NM Prep	
890-426-114	SW-11 (5')	Total/NA	Solid	8015NM Prep	
890-426-115	SW-12 (5')	Total/NA	Solid	8015NM Prep	
890-426-116	SW-13 (6.5')	Total/NA	Solid	8015NM Prep	
890-426-117	SW-14 (5')	Total/NA	Solid	8015NM Prep	
890-426-118	SW-15 (5')	Total/NA	Solid	8015NM Prep	
890-426-119	SW-16 (5')	Total/NA	Solid	8015NM Prep	
890-426-120	SW-17 (5')	Total/NA	Solid	8015NM Prep	
MB 880-983/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-983/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-101 MS	BH-101 (5')	Total/NA	Solid	8015NM Prep	
890-426-101 MSD	BH-101 (5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-121	SW-18 (5')	Total/NA	Solid	8015NM Prep	
890-426-122	SW-19 (7')	Total/NA	Solid	8015NM Prep	
890-426-123	SW-20 (7')	Total/NA	Solid	8015NM Prep	
890-426-124	SW-21 (7')	Total/NA	Solid	8015NM Prep	
890-426-125	SW-22 (7')	Total/NA	Solid	8015NM Prep	
890-426-126	SW-23 (5')	Total/NA	Solid	8015NM Prep	
890-426-127	SW-24 (5')	Total/NA	Solid	8015NM Prep	
890-426-128	SW-25 (5')	Total/NA	Solid	8015NM Prep	
890-426-129	SW-26 (5')	Total/NA	Solid	8015NM Prep	
890-426-130	SW-27 (5')	Total/NA	Solid	8015NM Prep	
890-426-131	SW-28 (6')	Total/NA	Solid	8015NM Prep	
MB 880-989/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-989/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-426-121 MS	SW-18 (5')	Total/NA	Solid	8015NM Prep	
890-426-121 MSD	SW-18 (5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-81	BH-81 (5')	Total/NA	Solid	8015B NM	982
890-426-82	BH-82 (5')	Total/NA	Solid	8015B NM	982
890-426-83	BH-83 (5')	Total/NA	Solid	8015B NM	982
890-426-84	BH-84 (5')	Total/NA	Solid	8015B NM	982
890-426-85	BH-85 (5')	Total/NA	Solid	8015B NM	982
890-426-86	BH-86 (7')	Total/NA	Solid	8015B NM	982
890-426-87	BH-87 (7')	Total/NA	Solid	8015B NM	982
890-426-88	BH-88 (7')	Total/NA	Solid	8015B NM	982
890-426-89	BH-89 (7')	Total/NA	Solid	8015B NM	982
890-426-90	BH-90 (7')	Total/NA	Solid	8015B NM	982

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 992 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-91	BH-91 (7')	Total/NA	Solid	8015B NM	982
890-426-92	BH-92 (7')	Total/NA	Solid	8015B NM	982
890-426-93	BH-93 (7')	Total/NA	Solid	8015B NM	982
890-426-94	BH-94 (7')	Total/NA	Solid	8015B NM	982
890-426-95	BH-95 (5')	Total/NA	Solid	8015B NM	982
890-426-96	BH-96 (5')	Total/NA	Solid	8015B NM	982
890-426-97	BH-97 (5')	Total/NA	Solid	8015B NM	982
890-426-98	BH-98 (5')	Total/NA	Solid	8015B NM	982
890-426-99	BH-99 (5')	Total/NA	Solid	8015B NM	982
890-426-100	BH-100 (5')	Total/NA	Solid	8015B NM	982
MB 880-982/1-A	Method Blank	Total/NA	Solid	8015B NM	982
LCS 880-982/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	982
LCSD 880-982/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	982
890-426-81 MS	BH-81 (5')	Total/NA	Solid	8015B NM	982
890-426-81 MSD	BH-81 (5')	Total/NA	Solid	8015B NM	982

Analysis Batch: 994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-101	BH-101 (5')	Total/NA	Solid	8015B NM	983
890-426-102	BH-102 (5')	Total/NA	Solid	8015B NM	983
890-426-103	BH-103 (5')	Total/NA	Solid	8015B NM	983
890-426-104	SW-1 (3.5')	Total/NA	Solid	8015B NM	983
890-426-105	SW-2 (3.5')	Total/NA	Solid	8015B NM	983
890-426-106	SW-3 (3.5')	Total/NA	Solid	8015B NM	983
890-426-107	SW-4 (5')	Total/NA	Solid	8015B NM	983
890-426-108	SW-5 (5')	Total/NA	Solid	8015B NM	983
890-426-109	SW-6 (5')	Total/NA	Solid	8015B NM	983
890-426-110	SW-7 (6')	Total/NA	Solid	8015B NM	983
890-426-111	SW-8 (6.5')	Total/NA	Solid	8015B NM	983
890-426-112	SW-9 (5')	Total/NA	Solid	8015B NM	983
890-426-113	SW-10 (5')	Total/NA	Solid	8015B NM	983
890-426-114	SW-11 (5')	Total/NA	Solid	8015B NM	983
890-426-115	SW-12 (5')	Total/NA	Solid	8015B NM	983
890-426-116	SW-13 (6.5')	Total/NA	Solid	8015B NM	983
890-426-117	SW-14 (5')	Total/NA	Solid	8015B NM	983
890-426-118	SW-15 (5')	Total/NA	Solid	8015B NM	983
890-426-119	SW-16 (5')	Total/NA	Solid	8015B NM	983
890-426-120	SW-17 (5')	Total/NA	Solid	8015B NM	983
MB 880-983/1-A	Method Blank	Total/NA	Solid	8015B NM	983
LCS 880-983/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	983
LCSD 880-983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	983
890-426-101 MS	BH-101 (5')	Total/NA	Solid	8015B NM	983
890-426-101 MSD	BH-101 (5')	Total/NA	Solid	8015B NM	983

Analysis Batch: 996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-121	SW-18 (5')	Total/NA	Solid	8015B NM	989
890-426-122	SW-19 (7')	Total/NA	Solid	8015B NM	989
890-426-123	SW-20 (7')	Total/NA	Solid	8015B NM	989
890-426-124	SW-21 (7')	Total/NA	Solid	8015B NM	989
890-426-125	SW-22 (7')	Total/NA	Solid	8015B NM	989

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

GC Semi VOA (Continued)

Analysis Batch: 996 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-126	SW-23 (5')	Total/NA	Solid	8015B NM	989
890-426-127	SW-24 (5')	Total/NA	Solid	8015B NM	989
890-426-128	SW-25 (5')	Total/NA	Solid	8015B NM	989
890-426-129	SW-26 (5')	Total/NA	Solid	8015B NM	989
890-426-130	SW-27 (5')	Total/NA	Solid	8015B NM	989
890-426-131	SW-28 (6')	Total/NA	Solid	8015B NM	989
MB 880-989/1-A	Method Blank	Total/NA	Solid	8015B NM	989
LCS 880-989/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	989
LCSD 880-989/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	989
890-426-121 MS	SW-18 (5')	Total/NA	Solid	8015B NM	989
890-426-121 MSD	SW-18 (5')	Total/NA	Solid	8015B NM	989

HPLC/IC

Leach Batch: 899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-108	SW-5 (5')	Soluble	Solid	DI Leach	
890-426-109	SW-6 (5')	Soluble	Solid	DI Leach	
890-426-110	SW-7 (6')	Soluble	Solid	DI Leach	
890-426-111	SW-8 (6.5')	Soluble	Solid	DI Leach	
890-426-112	SW-9 (5')	Soluble	Solid	DI Leach	
890-426-113	SW-10 (5')	Soluble	Solid	DI Leach	
890-426-114	SW-11 (5')	Soluble	Solid	DI Leach	
890-426-115	SW-12 (5')	Soluble	Solid	DI Leach	
890-426-116	SW-13 (6.5')	Soluble	Solid	DI Leach	
890-426-117	SW-14 (5')	Soluble	Solid	DI Leach	
890-426-118	SW-15 (5')	Soluble	Solid	DI Leach	
MB 880-899/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-899/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-899/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-109 MS	SW-6 (5')	Soluble	Solid	DI Leach	
890-426-109 MSD	SW-6 (5')	Soluble	Solid	DI Leach	

Leach Batch: 900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Soluble	Solid	DI Leach	
890-426-2	BH-2 (3.5')	Soluble	Solid	DI Leach	
890-426-3	BH-3 (3.5')	Soluble	Solid	DI Leach	
890-426-4	BH-4 (3.5')	Soluble	Solid	DI Leach	
890-426-5	BH-5 (3.5')	Soluble	Solid	DI Leach	
890-426-6	BH-6 (3.5')	Soluble	Solid	DI Leach	
890-426-107	SW-4 (5')	Soluble	Solid	DI Leach	
890-426-119	SW-16 (5')	Soluble	Solid	DI Leach	
890-426-120	SW-17 (5')	Soluble	Solid	DI Leach	
890-426-121	SW-18 (5')	Soluble	Solid	DI Leach	
890-426-122	SW-19 (7')	Soluble	Solid	DI Leach	
890-426-123	SW-20 (7')	Soluble	Solid	DI Leach	
890-426-124	SW-21 (7')	Soluble	Solid	DI Leach	
890-426-125	SW-22 (7')	Soluble	Solid	DI Leach	
890-426-126	SW-23 (5')	Soluble	Solid	DI Leach	
890-426-127	SW-24 (5')	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 900 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-128	SW-25 (5')	Soluble	Solid	DI Leach	
890-426-129	SW-26 (5')	Soluble	Solid	DI Leach	
890-426-130	SW-27 (5')	Soluble	Solid	DI Leach	
890-426-131	SW-28 (6')	Soluble	Solid	DI Leach	
MB 880-900/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-900/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-900/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-107 MS	SW-4 (5')	Soluble	Solid	DI Leach	
890-426-107 MSD	SW-4 (5')	Soluble	Solid	DI Leach	
890-426-122 MS	SW-19 (7')	Soluble	Solid	DI Leach	
890-426-122 MSD	SW-19 (7')	Soluble	Solid	DI Leach	

Leach Batch: 901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-7	BH-7 (3.5')	Soluble	Solid	DI Leach	
890-426-8	BH-8 (3.5')	Soluble	Solid	DI Leach	
890-426-9	BH-9 (3.5')	Soluble	Solid	DI Leach	
890-426-10	BH-10 (3.5')	Soluble	Solid	DI Leach	
890-426-11	BH-11 (5')	Soluble	Solid	DI Leach	
890-426-12	BH-12 (5')	Soluble	Solid	DI Leach	
890-426-13	BH-13 (5')	Soluble	Solid	DI Leach	
890-426-14	BH-14 (5')	Soluble	Solid	DI Leach	
890-426-15	BH-15 (5')	Soluble	Solid	DI Leach	
890-426-16	BH-16 (5')	Soluble	Solid	DI Leach	
890-426-17	BH-17 (5')	Soluble	Solid	DI Leach	
890-426-18	BH-18 (5')	Soluble	Solid	DI Leach	
890-426-19	BH-19 (5')	Soluble	Solid	DI Leach	
890-426-20	BH-20 (6')	Soluble	Solid	DI Leach	
890-426-21	BH-21 (6')	Soluble	Solid	DI Leach	
890-426-22	BH-22 (6')	Soluble	Solid	DI Leach	
890-426-23	BH-23 (6')	Soluble	Solid	DI Leach	
890-426-24	BH-24 (6')	Soluble	Solid	DI Leach	
890-426-25	BH-25 (6')	Soluble	Solid	DI Leach	
890-426-26	BH-26 (6')	Soluble	Solid	DI Leach	
MB 880-901/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-901/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-901/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-7 MS	BH-7 (3.5')	Soluble	Solid	DI Leach	
890-426-7 MSD	BH-7 (3.5')	Soluble	Solid	DI Leach	
890-426-17 MS	BH-17 (5')	Soluble	Solid	DI Leach	
890-426-17 MSD	BH-17 (5')	Soluble	Solid	DI Leach	

Analysis Batch: 987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-108	SW-5 (5')	Soluble	Solid	300.0	899
890-426-109	SW-6 (5')	Soluble	Solid	300.0	899
890-426-110	SW-7 (6')	Soluble	Solid	300.0	899
890-426-111	SW-8 (6.5')	Soluble	Solid	300.0	899
890-426-112	SW-9 (5')	Soluble	Solid	300.0	899
890-426-113	SW-10 (5')	Soluble	Solid	300.0	899
890-426-114	SW-11 (5')	Soluble	Solid	300.0	899

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 987 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-115	SW-12 (5')	Soluble	Solid	300.0	899
890-426-116	SW-13 (6.5')	Soluble	Solid	300.0	899
890-426-117	SW-14 (5')	Soluble	Solid	300.0	899
890-426-118	SW-15 (5')	Soluble	Solid	300.0	899
MB 880-899/1-A	Method Blank	Soluble	Solid	300.0	899
LCS 880-899/2-A	Lab Control Sample	Soluble	Solid	300.0	899
LCSD 880-899/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	899
890-426-109 MS	SW-6 (5')	Soluble	Solid	300.0	899
890-426-109 MSD	SW-6 (5')	Soluble	Solid	300.0	899

Leach Batch: 1011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-27	BH-27 (6')	Soluble	Solid	DI Leach	
890-426-28	BH-28 (6.5')	Soluble	Solid	DI Leach	
890-426-29	BH-29 (6.5')	Soluble	Solid	DI Leach	
890-426-30	BH-30 (6.5')	Soluble	Solid	DI Leach	
890-426-31	BH-31 (6.5')	Soluble	Solid	DI Leach	
890-426-32	BH-32 (6.5')	Soluble	Solid	DI Leach	
890-426-33	BH-33 (6.5')	Soluble	Solid	DI Leach	
890-426-35	BH-35 (5')	Soluble	Solid	DI Leach	
890-426-36	BH-36 (5')	Soluble	Solid	DI Leach	
890-426-37	BH-37 (6')	Soluble	Solid	DI Leach	
890-426-38	BH-38 (6')	Soluble	Solid	DI Leach	
890-426-39	BH-39 (6')	Soluble	Solid	DI Leach	
890-426-40	BH-40 (6')	Soluble	Solid	DI Leach	
890-426-41	BH-41 (6')	Soluble	Solid	DI Leach	
890-426-42	BH-42 (6')	Soluble	Solid	DI Leach	
890-426-43	BH-43 (6')	Soluble	Solid	DI Leach	
890-426-44	BH-44 (6')	Soluble	Solid	DI Leach	
890-426-45	BH-45 (6')	Soluble	Solid	DI Leach	
890-426-46	BH-46 (3.5')	Soluble	Solid	DI Leach	
MB 880-1011/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1011/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1011/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-27 MS	BH-27 (6')	Soluble	Solid	DI Leach	
890-426-27 MSD	BH-27 (6')	Soluble	Solid	DI Leach	
890-426-37 MS	BH-37 (6')	Soluble	Solid	DI Leach	
890-426-37 MSD	BH-37 (6')	Soluble	Solid	DI Leach	

Leach Batch: 1012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-47	BH-47 (3.5')	Soluble	Solid	DI Leach	
890-426-48	BH-48 (5')	Soluble	Solid	DI Leach	
890-426-49	BH-49 (5')	Soluble	Solid	DI Leach	
890-426-50	BH-50 (5')	Soluble	Solid	DI Leach	
890-426-51	BH-51 (5')	Soluble	Solid	DI Leach	
890-426-52	BH-52 (5')	Soluble	Solid	DI Leach	
890-426-53	BH-53 (5')	Soluble	Solid	DI Leach	
890-426-54	BH-54 (5')	Soluble	Solid	DI Leach	
890-426-55	BH-55 (5')	Soluble	Solid	DI Leach	
890-426-56	BH-56 (5')	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 1012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-57	BH-57 (5')	Soluble	Solid	DI Leach	
890-426-58	BH-58 (5')	Soluble	Solid	DI Leach	
890-426-59	BH-59 (5')	Soluble	Solid	DI Leach	
890-426-60	BH-60 (5')	Soluble	Solid	DI Leach	
890-426-61	BH-61 (5')	Soluble	Solid	DI Leach	
890-426-62	BH-62 (5')	Soluble	Solid	DI Leach	
890-426-63	BH-63 (5')	Soluble	Solid	DI Leach	
890-426-64	BH-64 (5')	Soluble	Solid	DI Leach	
890-426-65	BH-65 (5')	Soluble	Solid	DI Leach	
890-426-66	BH-66 (5')	Soluble	Solid	DI Leach	
MB 880-1012/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1012/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-47 MS	BH-47 (3.5')	Soluble	Solid	DI Leach	
890-426-47 MSD	BH-47 (3.5')	Soluble	Solid	DI Leach	
890-426-57 MS	BH-57 (5')	Soluble	Solid	DI Leach	
890-426-57 MSD	BH-57 (5')	Soluble	Solid	DI Leach	

Leach Batch: 1014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-67	BH-67 (5')	Soluble	Solid	DI Leach	
890-426-68	BH-68 (5')	Soluble	Solid	DI Leach	
890-426-69	BH-69 (5')	Soluble	Solid	DI Leach	
890-426-70	BH-70 (5')	Soluble	Solid	DI Leach	
890-426-71	BH-71 (5')	Soluble	Solid	DI Leach	
890-426-72	BH-72 (5')	Soluble	Solid	DI Leach	
890-426-73	BH-73 (5')	Soluble	Solid	DI Leach	
890-426-74	BH-74 (5')	Soluble	Solid	DI Leach	
890-426-75	BH-75 (5')	Soluble	Solid	DI Leach	
890-426-76	BH-76 (5')	Soluble	Solid	DI Leach	
890-426-77	BH-77 (5')	Soluble	Solid	DI Leach	
890-426-78	BH-78 (5')	Soluble	Solid	DI Leach	
890-426-79	BH-79 (5')	Soluble	Solid	DI Leach	
890-426-80	BH-80 (5')	Soluble	Solid	DI Leach	
890-426-81	BH-81 (5')	Soluble	Solid	DI Leach	
890-426-82	BH-82 (5')	Soluble	Solid	DI Leach	
890-426-83	BH-83 (5')	Soluble	Solid	DI Leach	
890-426-84	BH-84 (5')	Soluble	Solid	DI Leach	
890-426-85	BH-85 (5')	Soluble	Solid	DI Leach	
890-426-86	BH-86 (7')	Soluble	Solid	DI Leach	
MB 880-1014/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1014/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1014/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-67 MS	BH-67 (5')	Soluble	Solid	DI Leach	
890-426-67 MSD	BH-67 (5')	Soluble	Solid	DI Leach	
890-426-77 MS	BH-77 (5')	Soluble	Solid	DI Leach	
890-426-77 MSD	BH-77 (5')	Soluble	Solid	DI Leach	

Leach Batch: 1015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-87	BH-87 (7')	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 1015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-88	BH-88 (7')	Soluble	Solid	DI Leach	
890-426-89	BH-89 (7')	Soluble	Solid	DI Leach	
890-426-90	BH-90 (7')	Soluble	Solid	DI Leach	
890-426-91	BH-91 (7')	Soluble	Solid	DI Leach	
890-426-92	BH-92 (7')	Soluble	Solid	DI Leach	
890-426-93	BH-93 (7')	Soluble	Solid	DI Leach	
890-426-94	BH-94 (7')	Soluble	Solid	DI Leach	
890-426-95	BH-95 (5')	Soluble	Solid	DI Leach	
890-426-96	BH-96 (5')	Soluble	Solid	DI Leach	
890-426-97	BH-97 (5')	Soluble	Solid	DI Leach	
890-426-98	BH-98 (5')	Soluble	Solid	DI Leach	
890-426-99	BH-99 (5')	Soluble	Solid	DI Leach	
890-426-100	BH-100 (5')	Soluble	Solid	DI Leach	
890-426-101	BH-101 (5')	Soluble	Solid	DI Leach	
890-426-102	BH-102 (5')	Soluble	Solid	DI Leach	
890-426-103	BH-103 (5')	Soluble	Solid	DI Leach	
890-426-104	SW-1 (3.5')	Soluble	Solid	DI Leach	
890-426-105	SW-2 (3.5')	Soluble	Solid	DI Leach	
890-426-106	SW-3 (3.5')	Soluble	Solid	DI Leach	
MB 880-1015/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1015/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1015/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-426-87 MS	BH-87 (7')	Soluble	Solid	DI Leach	
890-426-87 MSD	BH-87 (7')	Soluble	Solid	DI Leach	
890-426-97 MS	BH-97 (5')	Soluble	Solid	DI Leach	
890-426-97 MSD	BH-97 (5')	Soluble	Solid	DI Leach	

Analysis Batch: 1043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-1	BH-1 (3.5')	Soluble	Solid	300.0	900
890-426-2	BH-2 (3.5')	Soluble	Solid	300.0	900
890-426-3	BH-3 (3.5')	Soluble	Solid	300.0	900
890-426-4	BH-4 (3.5')	Soluble	Solid	300.0	900
890-426-5	BH-5 (3.5')	Soluble	Solid	300.0	900
890-426-6	BH-6 (3.5')	Soluble	Solid	300.0	900
890-426-107	SW-4 (5')	Soluble	Solid	300.0	900
890-426-119	SW-16 (5')	Soluble	Solid	300.0	900
890-426-120	SW-17 (5')	Soluble	Solid	300.0	900
890-426-121	SW-18 (5')	Soluble	Solid	300.0	900
890-426-122	SW-19 (7')	Soluble	Solid	300.0	900
890-426-123	SW-20 (7')	Soluble	Solid	300.0	900
890-426-124	SW-21 (7')	Soluble	Solid	300.0	900
890-426-125	SW-22 (7')	Soluble	Solid	300.0	900
890-426-126	SW-23 (5')	Soluble	Solid	300.0	900
890-426-127	SW-24 (5')	Soluble	Solid	300.0	900
890-426-128	SW-25 (5')	Soluble	Solid	300.0	900
890-426-129	SW-26 (5')	Soluble	Solid	300.0	900
890-426-130	SW-27 (5')	Soluble	Solid	300.0	900
890-426-131	SW-28 (6')	Soluble	Solid	300.0	900
MB 880-900/1-A	Method Blank	Soluble	Solid	300.0	900
LCS 880-900/2-A	Lab Control Sample	Soluble	Solid	300.0	900

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 1043 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-900/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	900
890-426-107 MS	SW-4 (5')	Soluble	Solid	300.0	900
890-426-107 MSD	SW-4 (5')	Soluble	Solid	300.0	900
890-426-122 MS	SW-19 (7')	Soluble	Solid	300.0	900
890-426-122 MSD	SW-19 (7')	Soluble	Solid	300.0	900

Analysis Batch: 1044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-7	BH-7 (3.5')	Soluble	Solid	300.0	901
890-426-8	BH-8 (3.5')	Soluble	Solid	300.0	901
890-426-9	BH-9 (3.5')	Soluble	Solid	300.0	901
890-426-10	BH-10 (3.5')	Soluble	Solid	300.0	901
890-426-11	BH-11 (5')	Soluble	Solid	300.0	901
890-426-12	BH-12 (5')	Soluble	Solid	300.0	901
890-426-13	BH-13 (5')	Soluble	Solid	300.0	901
890-426-14	BH-14 (5')	Soluble	Solid	300.0	901
890-426-15	BH-15 (5')	Soluble	Solid	300.0	901
890-426-16	BH-16 (5')	Soluble	Solid	300.0	901
890-426-17	BH-17 (5')	Soluble	Solid	300.0	901
890-426-18	BH-18 (5')	Soluble	Solid	300.0	901
890-426-19	BH-19 (5')	Soluble	Solid	300.0	901
890-426-20	BH-20 (6')	Soluble	Solid	300.0	901
890-426-21	BH-21 (6')	Soluble	Solid	300.0	901
890-426-22	BH-22 (6')	Soluble	Solid	300.0	901
890-426-23	BH-23 (6')	Soluble	Solid	300.0	901
890-426-24	BH-24 (6')	Soluble	Solid	300.0	901
890-426-25	BH-25 (6')	Soluble	Solid	300.0	901
890-426-26	BH-26 (6')	Soluble	Solid	300.0	901
MB 880-901/1-A	Method Blank	Soluble	Solid	300.0	901
LCS 880-901/2-A	Lab Control Sample	Soluble	Solid	300.0	901
LCSD 880-901/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	901
890-426-7 MS	BH-7 (3.5')	Soluble	Solid	300.0	901
890-426-7 MSD	BH-7 (3.5')	Soluble	Solid	300.0	901
890-426-17 MS	BH-17 (5')	Soluble	Solid	300.0	901
890-426-17 MSD	BH-17 (5')	Soluble	Solid	300.0	901

Analysis Batch: 1045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-27	BH-27 (6')	Soluble	Solid	300.0	1011
890-426-28	BH-28 (6.5')	Soluble	Solid	300.0	1011
890-426-29	BH-29 (6.5')	Soluble	Solid	300.0	1011
890-426-30	BH-30 (6.5')	Soluble	Solid	300.0	1011
890-426-31	BH-31 (6.5')	Soluble	Solid	300.0	1011
890-426-32	BH-32 (6.5')	Soluble	Solid	300.0	1011
890-426-33	BH-33 (6.5')	Soluble	Solid	300.0	1011
890-426-35	BH-35 (5')	Soluble	Solid	300.0	1011
890-426-36	BH-36 (5')	Soluble	Solid	300.0	1011
890-426-37	BH-37 (6')	Soluble	Solid	300.0	1011
890-426-38	BH-38 (6')	Soluble	Solid	300.0	1011
890-426-39	BH-39 (6')	Soluble	Solid	300.0	1011
890-426-40	BH-40 (6')	Soluble	Solid	300.0	1011

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 1045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-41	BH-41 (6')	Soluble	Solid	300.0	1011
890-426-42	BH-42 (6')	Soluble	Solid	300.0	1011
890-426-43	BH-43 (6')	Soluble	Solid	300.0	1011
890-426-44	BH-44 (6')	Soluble	Solid	300.0	1011
890-426-45	BH-45 (6')	Soluble	Solid	300.0	1011
890-426-46	BH-46 (3.5')	Soluble	Solid	300.0	1011
MB 880-1011/1-A	Method Blank	Soluble	Solid	300.0	1011
LCS 880-1011/2-A	Lab Control Sample	Soluble	Solid	300.0	1011
LCSD 880-1011/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1011
890-426-27 MS	BH-27 (6')	Soluble	Solid	300.0	1011
890-426-27 MSD	BH-27 (6')	Soluble	Solid	300.0	1011
890-426-37 MS	BH-37 (6')	Soluble	Solid	300.0	1011
890-426-37 MSD	BH-37 (6')	Soluble	Solid	300.0	1011

Analysis Batch: 1046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-47	BH-47 (3.5')	Soluble	Solid	300.0	1012
890-426-48	BH-48 (5')	Soluble	Solid	300.0	1012
890-426-49	BH-49 (5')	Soluble	Solid	300.0	1012
890-426-50	BH-50 (5')	Soluble	Solid	300.0	1012
890-426-51	BH-51 (5')	Soluble	Solid	300.0	1012
890-426-52	BH-52 (5')	Soluble	Solid	300.0	1012
890-426-53	BH-53 (5')	Soluble	Solid	300.0	1012
890-426-54	BH-54 (5')	Soluble	Solid	300.0	1012
890-426-55	BH-55 (5')	Soluble	Solid	300.0	1012
890-426-56	BH-56 (5')	Soluble	Solid	300.0	1012
890-426-57	BH-57 (5')	Soluble	Solid	300.0	1012
890-426-58	BH-58 (5')	Soluble	Solid	300.0	1012
890-426-59	BH-59 (5')	Soluble	Solid	300.0	1012
890-426-60	BH-60 (5')	Soluble	Solid	300.0	1012
890-426-61	BH-61 (5')	Soluble	Solid	300.0	1012
890-426-62	BH-62 (5')	Soluble	Solid	300.0	1012
890-426-63	BH-63 (5')	Soluble	Solid	300.0	1012
890-426-64	BH-64 (5')	Soluble	Solid	300.0	1012
890-426-65	BH-65 (5')	Soluble	Solid	300.0	1012
890-426-66	BH-66 (5')	Soluble	Solid	300.0	1012
MB 880-1012/1-A	Method Blank	Soluble	Solid	300.0	1012
LCS 880-1012/2-A	Lab Control Sample	Soluble	Solid	300.0	1012
LCSD 880-1012/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1012
890-426-47 MS	BH-47 (3.5')	Soluble	Solid	300.0	1012
890-426-47 MSD	BH-47 (3.5')	Soluble	Solid	300.0	1012
890-426-57 MS	BH-57 (5')	Soluble	Solid	300.0	1012
890-426-57 MSD	BH-57 (5')	Soluble	Solid	300.0	1012

Analysis Batch: 1047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-67	BH-67 (5')	Soluble	Solid	300.0	1014
890-426-68	BH-68 (5')	Soluble	Solid	300.0	1014
890-426-69	BH-69 (5')	Soluble	Solid	300.0	1014
890-426-70	BH-70 (5')	Soluble	Solid	300.0	1014
890-426-71	BH-71 (5')	Soluble	Solid	300.0	1014

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 1047 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-72	BH-72 (5')	Soluble	Solid	300.0	1014
890-426-73	BH-73 (5')	Soluble	Solid	300.0	1014
890-426-74	BH-74 (5')	Soluble	Solid	300.0	1014
890-426-75	BH-75 (5')	Soluble	Solid	300.0	1014
890-426-76	BH-76 (5')	Soluble	Solid	300.0	1014
890-426-77	BH-77 (5')	Soluble	Solid	300.0	1014
890-426-78	BH-78 (5')	Soluble	Solid	300.0	1014
890-426-79	BH-79 (5')	Soluble	Solid	300.0	1014
890-426-80	BH-80 (5')	Soluble	Solid	300.0	1014
890-426-81	BH-81 (5')	Soluble	Solid	300.0	1014
890-426-82	BH-82 (5')	Soluble	Solid	300.0	1014
890-426-83	BH-83 (5')	Soluble	Solid	300.0	1014
890-426-84	BH-84 (5')	Soluble	Solid	300.0	1014
890-426-85	BH-85 (5')	Soluble	Solid	300.0	1014
890-426-86	BH-86 (7')	Soluble	Solid	300.0	1014
MB 880-1014/1-A	Method Blank	Soluble	Solid	300.0	1014
LCS 880-1014/2-A	Lab Control Sample	Soluble	Solid	300.0	1014
LCSD 880-1014/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1014
890-426-67 MS	BH-67 (5')	Soluble	Solid	300.0	1014
890-426-67 MSD	BH-67 (5')	Soluble	Solid	300.0	1014
890-426-77 MS	BH-77 (5')	Soluble	Solid	300.0	1014
890-426-77 MSD	BH-77 (5')	Soluble	Solid	300.0	1014

Analysis Batch: 1145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-87	BH-87 (7')	Soluble	Solid	300.0	1015
890-426-88	BH-88 (7')	Soluble	Solid	300.0	1015
890-426-89	BH-89 (7')	Soluble	Solid	300.0	1015
890-426-90	BH-90 (7')	Soluble	Solid	300.0	1015
890-426-91	BH-91 (7')	Soluble	Solid	300.0	1015
890-426-92	BH-92 (7')	Soluble	Solid	300.0	1015
890-426-93	BH-93 (7')	Soluble	Solid	300.0	1015
890-426-94	BH-94 (7')	Soluble	Solid	300.0	1015
890-426-95	BH-95 (5')	Soluble	Solid	300.0	1015
890-426-96	BH-96 (5')	Soluble	Solid	300.0	1015
890-426-97	BH-97 (5')	Soluble	Solid	300.0	1015
890-426-98	BH-98 (5')	Soluble	Solid	300.0	1015
890-426-99	BH-99 (5')	Soluble	Solid	300.0	1015
890-426-100	BH-100 (5')	Soluble	Solid	300.0	1015
890-426-101	BH-101 (5')	Soluble	Solid	300.0	1015
890-426-102	BH-102 (5')	Soluble	Solid	300.0	1015
890-426-103	BH-103 (5')	Soluble	Solid	300.0	1015
890-426-104	SW-1 (3.5')	Soluble	Solid	300.0	1015
890-426-105	SW-2 (3.5')	Soluble	Solid	300.0	1015
890-426-106	SW-3 (3.5')	Soluble	Solid	300.0	1015
MB 880-1015/1-A	Method Blank	Soluble	Solid	300.0	1015
LCS 880-1015/2-A	Lab Control Sample	Soluble	Solid	300.0	1015
LCSD 880-1015/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1015
890-426-87 MS	BH-87 (7')	Soluble	Solid	300.0	1015
890-426-87 MSD	BH-87 (7')	Soluble	Solid	300.0	1015
890-426-97 MS	BH-97 (5')	Soluble	Solid	300.0	1015

Eurofins Xenco, Carlsbad

QC Association Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

HPLC/IC (Continued)

Analysis Batch: 1145 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-97 MSD	BH-97 (5')	Soluble	Solid	300.0	1015

Leach Batch: 1259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-34	BH-34 (5')	Soluble	Solid	DI Leach	
MB 880-1259/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 1279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-426-34	BH-34 (5')	Soluble	Solid	300.0	1259
MB 880-1259/1-A	Method Blank	Soluble	Solid	300.0	1259
LCS 880-1259/2-A	Lab Control Sample	Soluble	Solid	300.0	1259
LCSD 880-1259/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	1259

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-1 (3.5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Lab Sample ID: 890-426-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 11:56	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 14:02	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 09:26	CH	XM

Client Sample ID: BH-2 (3.5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Lab Sample ID: 890-426-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 13:23	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 15:06	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 09:31	CH	XM

Client Sample ID: BH-3 (3.5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Lab Sample ID: 890-426-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 13:44	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 15:27	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 09:36	CH	XM

Client Sample ID: BH-4 (3.5')

Date Collected: 03/24/21 00:00

Date Received: 03/25/21 11:36

Lab Sample ID: 890-426-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 14:05	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 15:48	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 09:41	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-5 (3.5')

Lab Sample ID: 890-426-5

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 14:25	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 16:09	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:24	CH	XM

Client Sample ID: BH-6 (3.5')

Lab Sample ID: 890-426-6

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 14:46	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 16:31	AJ	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:29	CH	XM

Client Sample ID: BH-7 (3.5')

Lab Sample ID: 890-426-7

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 15:07	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 16:52	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 13:54	CH	XM

Client Sample ID: BH-8 (3.5')

Lab Sample ID: 890-426-8

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 15:28	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 17:13	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:09	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-9 (3.5')

Lab Sample ID: 890-426-9

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 15:49	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 17:34	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:15	CH	XM

Client Sample ID: BH-10 (3.5')

Lab Sample ID: 890-426-10

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 16:10	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 17:56	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:20	CH	XM

Client Sample ID: BH-11 (5')

Lab Sample ID: 890-426-11

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			915	03/26/21 15:03	KL	XM
Total/NA	Analysis	8021B		1	936	03/27/21 16:30	AJ	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 18:46	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:25	CH	XM

Client Sample ID: BH-12 (5')

Lab Sample ID: 890-426-12

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 18:02	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 19:08	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:41	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-13 (5')

Lab Sample ID: 890-426-13

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 18:22	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 19:29	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:47	CH	XM

Client Sample ID: BH-14 (5')

Lab Sample ID: 890-426-14

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 18:43	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 19:50	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:52	CH	XM

Client Sample ID: BH-15 (5')

Lab Sample ID: 890-426-15

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 19:03	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 20:11	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 14:57	CH	XM

Client Sample ID: BH-16 (5')

Lab Sample ID: 890-426-16

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 19:24	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 20:32	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:02	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-17 (5')

Lab Sample ID: 890-426-17

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 19:44	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 20:53	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:08	CH	XM

Client Sample ID: BH-18 (5')

Lab Sample ID: 890-426-18

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 20:04	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 21:14	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:24	CH	XM

Client Sample ID: BH-19 (5')

Lab Sample ID: 890-426-19

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 20:25	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 21:36	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:29	CH	XM

Client Sample ID: BH-20 (6')

Lab Sample ID: 890-426-20

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 20:45	MR	XM
Total/NA	Prep	8015NM Prep			891	03/26/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	894	03/26/21 21:58	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:45	CH	XM

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Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-21 (6')

Lab Sample ID: 890-426-21

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 21:06	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 14:02	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:50	CH	XM

Client Sample ID: BH-22 (6')

Lab Sample ID: 890-426-22

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 22:21	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 15:06	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 15:56	CH	XM

Client Sample ID: BH-23 (6')

Lab Sample ID: 890-426-23

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 22:42	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 15:27	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 16:01	CH	XM

Client Sample ID: BH-24 (6')

Lab Sample ID: 890-426-24

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 23:02	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 15:48	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 16:06	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-25 (6')

Lab Sample ID: 890-426-25

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 23:22	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 16:09	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 16:12	CH	XM

Client Sample ID: BH-26 (6')

Lab Sample ID: 890-426-26

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/27/21 23:43	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 16:31	AJ	XM
Soluble	Leach	DI Leach			901	03/26/21 10:16	CH	XM
Soluble	Analysis	300.0		1	1044	03/31/21 16:17	CH	XM

Client Sample ID: BH-27 (6')

Lab Sample ID: 890-426-27

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 00:03	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 16:52	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 09:22	CH	XM

Client Sample ID: BH-28 (6.5')

Lab Sample ID: 890-426-28

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 00:24	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 17:13	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 09:37	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-29 (6.5')

Lab Sample ID: 890-426-29

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 00:44	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 17:34	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 09:42	CH	XM

Client Sample ID: BH-30 (6.5')

Lab Sample ID: 890-426-30

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 01:04	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 17:56	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 09:47	CH	XM

Client Sample ID: BH-31 (6.5')

Lab Sample ID: 890-426-31

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			917	03/26/21 15:09	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 01:25	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 18:46	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 09:52	CH	XM

Client Sample ID: BH-32 (6.5')

Lab Sample ID: 890-426-32

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 05:02	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 19:08	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:07	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-33 (6.5')

Lab Sample ID: 890-426-33

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 05:23	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 19:29	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:12	CH	XM

Client Sample ID: BH-34 (5')

Lab Sample ID: 890-426-34

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 05:43	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 19:50	AJ	XM
Soluble	Leach	DI Leach			1259	04/02/21 15:06	SC	XM
Soluble	Analysis	300.0		1	1279	04/04/21 03:19	CH	XM

Client Sample ID: BH-35 (5')

Lab Sample ID: 890-426-35

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 06:04	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 20:11	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:22	CH	XM

Client Sample ID: BH-36 (5')

Lab Sample ID: 890-426-36

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 06:24	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 20:32	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:27	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-37 (6')

Lab Sample ID: 890-426-37

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 06:45	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 20:53	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:32	CH	XM

Client Sample ID: BH-38 (6')

Lab Sample ID: 890-426-38

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 07:05	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 21:14	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:47	CH	XM

Client Sample ID: BH-39 (6')

Lab Sample ID: 890-426-39

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 07:26	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 21:36	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 10:52	CH	XM

Client Sample ID: BH-40 (6')

Lab Sample ID: 890-426-40

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 07:46	MR	XM
Total/NA	Prep	8015NM Prep			892	03/26/21 09:37	DM	XM
Total/NA	Analysis	8015B NM		1	897	03/26/21 21:58	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:07	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-41 (6')

Lab Sample ID: 890-426-41

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 08:06	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 15:43	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:12	CH	XM

Client Sample ID: BH-42 (6')

Lab Sample ID: 890-426-42

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 09:22	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 16:47	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:17	CH	XM

Client Sample ID: BH-43 (6')

Lab Sample ID: 890-426-43

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 09:42	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 17:08	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:22	CH	XM

Client Sample ID: BH-44 (6')

Lab Sample ID: 890-426-44

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 10:03	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 17:30	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:27	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-45 (6')

Lab Sample ID: 890-426-45

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 10:23	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 17:50	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:32	CH	XM

Client Sample ID: BH-46 (3.5')

Lab Sample ID: 890-426-46

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 10:44	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 18:12	AJ	XM
Soluble	Leach	DI Leach			1011	03/29/21 14:22	CH	XM
Soluble	Analysis	300.0		1	1045	03/31/21 11:37	CH	XM

Client Sample ID: BH-47 (3.5')

Lab Sample ID: 890-426-47

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 11:04	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 18:33	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 02:52	JWW	XM

Client Sample ID: BH-48 (5')

Lab Sample ID: 890-426-48

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 11:24	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 18:54	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:08	JWW	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-49 (5')

Lab Sample ID: 890-426-49

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 11:45	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 19:15	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:13	JWW	XM

Client Sample ID: BH-50 (5')

Lab Sample ID: 890-426-50

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 12:05	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 19:37	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:18	JWW	XM

Client Sample ID: BH-51 (5')

Lab Sample ID: 890-426-51

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			920	03/26/21 15:13	KL	XM
Total/NA	Analysis	8021B		1	949	03/28/21 12:26	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 20:19	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:23	JWW	XM

Client Sample ID: BH-52 (5')

Lab Sample ID: 890-426-52

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 03:18	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 20:40	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:38	JWW	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-53 (5')

Lab Sample ID: 890-426-53

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 03:38	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 21:01	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:43	JWW	XM

Client Sample ID: BH-54 (5')

Lab Sample ID: 890-426-54

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 03:59	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 21:22	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:48	JWW	XM

Client Sample ID: BH-55 (5')

Lab Sample ID: 890-426-55

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 04:19	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 21:43	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:53	JWW	XM

Client Sample ID: BH-56 (5')

Lab Sample ID: 890-426-56

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 04:40	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 22:04	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 03:58	JWW	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-57 (5')

Lab Sample ID: 890-426-57

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 05:00	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 22:26	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:03	JWW	XM

Client Sample ID: BH-58 (5')

Lab Sample ID: 890-426-58

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 05:20	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 22:47	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:18	JWW	XM

Client Sample ID: BH-59 (5')

Lab Sample ID: 890-426-59

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 05:41	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 23:08	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:23	JWW	XM

Client Sample ID: BH-60 (5')

Lab Sample ID: 890-426-60

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 06:01	MR	XM
Total/NA	Prep	8015NM Prep			941	03/27/21 10:06	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/28/21 23:29	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:39	JWW	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-61 (5')

Lab Sample ID: 890-426-61

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 06:22	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 01:13	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:44	JWW	XM

Client Sample ID: BH-62 (5')

Lab Sample ID: 890-426-62

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 07:44	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 02:16	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:49	JWW	XM

Client Sample ID: BH-63 (5')

Lab Sample ID: 890-426-63

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 08:04	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 02:37	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:54	JWW	XM

Client Sample ID: BH-64 (5')

Lab Sample ID: 890-426-64

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 08:24	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 02:58	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 04:59	JWW	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-65 (5')

Lab Sample ID: 890-426-65

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 08:45	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 03:19	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 05:04	JWW	XM

Client Sample ID: BH-66 (5')

Lab Sample ID: 890-426-66

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 09:05	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 03:41	AJ	XM
Soluble	Leach	DI Leach			1012	03/29/21 14:25	CH	XM
Soluble	Analysis	300.0		1	1046	03/30/21 05:09	JWW	XM

Client Sample ID: BH-67 (5')

Lab Sample ID: 890-426-67

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 09:26	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 04:01	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 05:50	CH	XM

Client Sample ID: BH-68 (5')

Lab Sample ID: 890-426-68

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 09:46	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 04:22	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:05	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-69 (5')

Lab Sample ID: 890-426-69

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 10:07	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 04:43	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:10	CH	XM

Client Sample ID: BH-70 (5')

Lab Sample ID: 890-426-70

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 10:27	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 05:04	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:15	CH	XM

Client Sample ID: BH-71 (5')

Lab Sample ID: 890-426-71

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			922	03/26/21 15:17	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 10:47	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 05:46	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:20	CH	XM

Client Sample ID: BH-72 (5')

Lab Sample ID: 890-426-72

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 13:48	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 06:07	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:35	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-73 (5')

Lab Sample ID: 890-426-73

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 14:10	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 06:28	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:40	CH	XM

Client Sample ID: BH-74 (5')

Lab Sample ID: 890-426-74

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 14:30	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 06:49	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:45	CH	XM

Client Sample ID: BH-75 (5')

Lab Sample ID: 890-426-75

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 14:51	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 07:10	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:50	CH	XM

Client Sample ID: BH-76 (5')

Lab Sample ID: 890-426-76

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 15:11	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 07:32	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 06:55	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-77 (5')

Lab Sample ID: 890-426-77

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 15:32	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 07:53	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:00	CH	XM

Client Sample ID: BH-78 (5')

Lab Sample ID: 890-426-78

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 15:52	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 08:15	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:16	CH	XM

Client Sample ID: BH-79 (5')

Lab Sample ID: 890-426-79

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 16:13	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 08:36	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:21	CH	XM

Client Sample ID: BH-80 (5')

Lab Sample ID: 890-426-80

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 16:33	MR	XM
Total/NA	Prep	8015NM Prep			942	03/27/21 10:21	DM	XM
Total/NA	Analysis	8015B NM		1	965	03/29/21 08:57	AJ	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:36	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-81 (5')

Lab Sample ID: 890-426-81

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 16:54	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 13:10	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:41	CH	XM

Client Sample ID: BH-82 (5')

Lab Sample ID: 890-426-82

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 18:15	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 14:14	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:46	CH	XM

Client Sample ID: BH-83 (5')

Lab Sample ID: 890-426-83

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 18:36	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 14:35	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:51	CH	XM

Client Sample ID: BH-84 (5')

Lab Sample ID: 890-426-84

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 18:57	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 14:56	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 07:56	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-85 (5')

Lab Sample ID: 890-426-85

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 19:17	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 15:17	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 08:01	CH	XM

Client Sample ID: BH-86 (7')

Lab Sample ID: 890-426-86

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 19:38	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 15:39	T1S	XM
Soluble	Leach	DI Leach			1014	03/29/21 14:29	CH	XM
Soluble	Analysis	300.0		1	1047	03/30/21 08:06	CH	XM

Client Sample ID: BH-87 (7')

Lab Sample ID: 890-426-87

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 19:58	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 16:00	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 10:49	CH	XM

Client Sample ID: BH-88 (7')

Lab Sample ID: 890-426-88

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 20:18	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 16:21	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:04	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-89 (7')

Lab Sample ID: 890-426-89

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 20:39	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 16:42	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:09	CH	XM

Client Sample ID: BH-90 (7')

Lab Sample ID: 890-426-90

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 20:59	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 17:03	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:14	CH	XM

Client Sample ID: BH-91 (7')

Lab Sample ID: 890-426-91

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			923	03/26/21 15:22	KL	XM
Total/NA	Analysis	8021B		1	954	03/28/21 21:20	MR	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 17:45	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:19	CH	XM

Client Sample ID: BH-92 (7')

Lab Sample ID: 890-426-92

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 20:12	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 18:06	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:34	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-93 (7')

Lab Sample ID: 890-426-93

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 20:32	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 18:27	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:39	CH	XM

Client Sample ID: BH-94 (7')

Lab Sample ID: 890-426-94

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 20:53	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 18:49	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:44	CH	XM

Client Sample ID: BH-95 (5')

Lab Sample ID: 890-426-95

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 21:14	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 19:10	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:49	CH	XM

Client Sample ID: BH-96 (5')

Lab Sample ID: 890-426-96

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 21:35	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 19:32	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:54	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-97 (5')

Lab Sample ID: 890-426-97

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 21:55	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 19:53	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 11:59	CH	XM

Client Sample ID: BH-98 (5')

Lab Sample ID: 890-426-98

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 22:16	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 20:14	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:14	CH	XM

Client Sample ID: BH-99 (5')

Lab Sample ID: 890-426-99

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 22:37	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 20:35	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:19	CH	XM

Client Sample ID: BH-100 (5')

Lab Sample ID: 890-426-100

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 22:58	KL	XM
Total/NA	Prep	8015NM Prep			982	03/29/21 08:38	DM	XM
Total/NA	Analysis	8015B NM		1	992	03/29/21 20:56	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:34	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: BH-101 (5')

Lab Sample ID: 890-426-101

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/28/21 23:18	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 13:10	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:39	CH	XM

Client Sample ID: BH-102 (5')

Lab Sample ID: 890-426-102

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 00:43	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 14:14	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:44	CH	XM

Client Sample ID: BH-103 (5')

Lab Sample ID: 890-426-103

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 01:03	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 14:35	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:49	CH	XM

Client Sample ID: SW-1 (3.5')

Lab Sample ID: 890-426-104

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 01:24	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 14:56	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:54	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-2 (3.5')

Lab Sample ID: 890-426-105

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 01:44	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 15:17	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 12:59	CH	XM

Client Sample ID: SW-3 (3.5')

Lab Sample ID: 890-426-106

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 02:05	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 15:39	T1S	XM
Soluble	Leach	DI Leach			1015	03/29/21 14:31	CH	XM
Soluble	Analysis	300.0		1	1145	04/01/21 13:04	CH	XM

Client Sample ID: SW-4 (5')

Lab Sample ID: 890-426-107

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 02:26	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 16:00	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 09:11	CH	XM

Client Sample ID: SW-5 (5')

Lab Sample ID: 890-426-108

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 02:46	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 16:21	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:10	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-6 (5')

Lab Sample ID: 890-426-109

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 03:07	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 16:42	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:15	CH	XM

Client Sample ID: SW-7 (6')

Lab Sample ID: 890-426-110

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 03:28	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 17:03	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:32	CH	XM

Client Sample ID: SW-8 (6.5')

Lab Sample ID: 890-426-111

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			924	03/26/21 15:25	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 03:48	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 17:45	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:37	CH	XM

Client Sample ID: SW-9 (5')

Lab Sample ID: 890-426-112

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 07:12	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 18:06	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:54	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-10 (5')

Lab Sample ID: 890-426-113

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 07:33	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 18:27	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 12:59	CH	XM

Client Sample ID: SW-11 (5')

Lab Sample ID: 890-426-114

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 07:54	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 18:49	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 13:05	CH	XM

Client Sample ID: SW-12 (5')

Lab Sample ID: 890-426-115

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 08:15	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 19:10	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 13:10	CH	XM

Client Sample ID: SW-13 (6.5')

Lab Sample ID: 890-426-116

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 08:35	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 19:32	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 13:16	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-14 (5')

Lab Sample ID: 890-426-117

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 08:56	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 19:53	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 13:22	CH	XM

Client Sample ID: SW-15 (5')

Lab Sample ID: 890-426-118

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 09:17	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 20:14	T1S	XM
Soluble	Leach	DI Leach			899	03/26/21 10:12	CH	XM
Soluble	Analysis	300.0		1	987	03/29/21 13:27	CH	XM

Client Sample ID: SW-16 (5')

Lab Sample ID: 890-426-119

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 09:37	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 20:35	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:35	CH	XM

Client Sample ID: SW-17 (5')

Lab Sample ID: 890-426-120

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 09:58	KL	XM
Total/NA	Prep	8015NM Prep			983	03/29/21 08:57	DM	XM
Total/NA	Analysis	8015B NM		1	994	03/29/21 20:56	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:40	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-18 (5')

Lab Sample ID: 890-426-121

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 10:19	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 14:39	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:45	CH	XM

Client Sample ID: SW-19 (7')

Lab Sample ID: 890-426-122

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 11:42	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 15:44	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 10:50	CH	XM

Client Sample ID: SW-20 (7')

Lab Sample ID: 890-426-123

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 12:03	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 16:06	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:06	CH	XM

Client Sample ID: SW-21 (7')

Lab Sample ID: 890-426-124

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 12:23	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 16:27	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:12	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-22 (7')

Lab Sample ID: 890-426-125

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 12:44	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 16:49	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:28	CH	XM

Client Sample ID: SW-23 (5')

Lab Sample ID: 890-426-126

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 13:05	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 17:10	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:33	CH	XM

Client Sample ID: SW-24 (5')

Lab Sample ID: 890-426-127

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 13:26	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 17:32	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:38	CH	XM

Client Sample ID: SW-25 (5')

Lab Sample ID: 890-426-128

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 13:46	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 17:54	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:44	CH	XM

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Client Sample ID: SW-26 (5')

Lab Sample ID: 890-426-129

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 14:07	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 18:16	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:49	CH	XM

Client Sample ID: SW-27 (5')

Lab Sample ID: 890-426-130

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 14:28	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 18:37	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 11:54	CH	XM

Client Sample ID: SW-28 (6')

Lab Sample ID: 890-426-131

Date Collected: 03/24/21 00:00

Matrix: Solid

Date Received: 03/25/21 11:36

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			925	03/26/21 15:29	KL	XM
Total/NA	Analysis	8021B		1	963	03/29/21 14:48	KL	XM
Total/NA	Prep	8015NM Prep			989	03/29/21 10:13	DM	XM
Total/NA	Analysis	8015B NM		1	996	03/29/21 19:20	T1S	XM
Soluble	Leach	DI Leach			900	03/26/21 10:14	CH	XM
Soluble	Analysis	300.0		1	1043	03/31/21 12:00	CH	XM

Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
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	06-30-21

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

Eurofins Xenco, Carlsbad

Method Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

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

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:

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

Eurofins Xenco, Carlsbad

Sample Summary

Client: Tetra Tech, Inc.

Job ID: 890-426-1

Project/Site: Heart Throb Risers SWD - 212C-MD-02410

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-426-1	BH-1 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-2	BH-2 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-3	BH-3 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-4	BH-4 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-5	BH-5 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-6	BH-6 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-7	BH-7 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-8	BH-8 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-9	BH-9 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-10	BH-10 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-11	BH-11 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-12	BH-12 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-13	BH-13 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-14	BH-14 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-15	BH-15 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-16	BH-16 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-17	BH-17 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-18	BH-18 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-19	BH-19 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-20	BH-20 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-21	BH-21 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-22	BH-22 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-23	BH-23 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-24	BH-24 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-25	BH-25 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-26	BH-26 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-27	BH-27 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-28	BH-28 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-29	BH-29 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-30	BH-30 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-31	BH-31 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-32	BH-32 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-33	BH-33 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-34	BH-34 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-35	BH-35 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-36	BH-36 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-37	BH-37 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-38	BH-38 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-39	BH-39 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-40	BH-40 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-41	BH-41 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-42	BH-42 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-43	BH-43 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-44	BH-44 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-45	BH-45 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-46	BH-46 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-47	BH-47 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-48	BH-48 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-49	BH-49 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-50	BH-50 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-51	BH-51 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-52	BH-52 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-53	BH-53 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5

Eurofins Xenco, Carlsbad

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-426-54	BH-54 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-55	BH-55 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-56	BH-56 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-57	BH-57 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-58	BH-58 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-59	BH-59 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-60	BH-60 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-61	BH-61 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-62	BH-62 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-63	BH-63 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-64	BH-64 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-65	BH-65 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-66	BH-66 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-67	BH-67 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-68	BH-68 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-69	BH-69 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-70	BH-70 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-71	BH-71 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-72	BH-72 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-73	BH-73 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-74	BH-74 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-75	BH-75 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-76	BH-76 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-77	BH-77 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-78	BH-78 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-79	BH-79 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-80	BH-80 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-81	BH-81 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-82	BH-82 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-83	BH-83 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-84	BH-84 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-85	BH-85 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-86	BH-86 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-87	BH-87 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-88	BH-88 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-89	BH-89 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-90	BH-90 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-91	BH-91 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-92	BH-92 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-93	BH-93 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-94	BH-94 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-95	BH-95 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-96	BH-96 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-97	BH-97 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-98	BH-98 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-99	BH-99 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-100	BH-100 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-101	BH-101 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-102	BH-102 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-103	BH-103 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-104	SW-1 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-105	SW-2 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5
890-426-106	SW-3 (3.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 3.5

Eurofins Xenco, Carlsbad

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: Heart Throb Risers SWD - 212C-MD-02410

Job ID: 890-426-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-426-107	SW-4 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-108	SW-5 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-109	SW-6 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-110	SW-7 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6
890-426-111	SW-8 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-112	SW-9 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-113	SW-10 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-114	SW-11 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-115	SW-12 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-116	SW-13 (6.5')	Solid	03/24/21 00:00	03/25/21 11:36	- 6.5
890-426-117	SW-14 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-118	SW-15 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-119	SW-16 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-120	SW-17 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-121	SW-18 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-122	SW-19 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-123	SW-20 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-124	SW-21 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-125	SW-22 (7')	Solid	03/24/21 00:00	03/25/21 11:36	- 7
890-426-126	SW-23 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-127	SW-24 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-128	SW-25 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-129	SW-26 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-130	SW-27 (5')	Solid	03/24/21 00:00	03/25/21 11:36	- 5
890-426-131	SW-28 (6')	Solid	03/24/21 00:00	03/25/21 11:36	- 6

Eurofins Xenco, Carlsbad

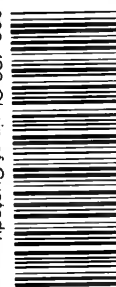
Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

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

890-426 Chain of Custody



Page 1 of 14

Client Name: **EOG** Site Manager: **Brittany Long**

Project Name: Heart Throb Biser SWD

Lea County, NM

Project #: 212C-MD-02410

Invoice to:

EOG - Todd Wells

Receiving Laboratory:

Sampler Signature:

Ezequiel Morenc

Comments:

[illegible]

Relinquished by:

Date: Time:

Received by:

Date: _____ Time: _____

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: _____ Time: _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

Sample Temperature

$$\frac{1.6}{1.4}$$

REMARKS

☐ STANDARD

☒ PUSM: Same Day 24 hr 48 hr **72 hr**

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

301 W. Main Street, Suite 100
Midland, Texas 79705
Tel (432) 692-4559
Fax (432) 692-3948

Page 2 of 14

Client Name: EOG		Site Manager: Brittany Long					
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410					
Project Location: Lea County, NM		Project #: 212C-MD-02410					
Invoice to: EOG - Todd Wells		Sampler Signature: Ezequiel Moreno					
Receiving Laboratory: Xenco		Comments:					
LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)
		DATE	TIME				
	BH-11 (5')	3/24/2021		X			
	BH-12 (5')	3/24/2021		X			
	BH-13 (5')	3/24/2021		X			
	BH-14 (5')	3/24/2021		X			
	BH-15 (5')	3/24/2021		X			
	BH-16 (5')	3/24/2021		X			
	BH-17 (5')	3/24/2021		X			
	BH-18 (5')	3/24/2021		X			
	BH-19 (5')	3/24/2021		X			
	BH-20 (6')	3/24/2021		X			
Relinquished by: <i>Evelyn M...</i>		Date: _____	Time: _____	Received by: <i>Lee C...</i>	Date: 3.25.21	Time: 1136	
Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	
Relinquished by: _____		Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____	

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY	REMARKS:	BTEX 8021B BTEX 8260B	
		TPH TX1005 (Ext to C35)	
LAB USE ONLY	REMARKS:	TPH 8015M (GRO - DRO - ORO - MRO)	
		PAH 8270C	
LAB USE ONLY	REMARKS:	Total Metals Ag As Ba Cd Cr Pb Se Hg	
		TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
LAB USE ONLY	REMARKS:	TCLP Volatiles	
		TCLP Semi Volatiles	
LAB USE ONLY	REMARKS:	RCI	
		GC/MS Vol. 8260B / 624	
LAB USE ONLY	REMARKS:	GC/MS Semi. Vol. 8270C/625	
		PCB's 8082 / 608	
LAB USE ONLY	REMARKS:	NORM	
		PLM (Asbestos)	
LAB USE ONLY	REMARKS:	Chloride	
		Chloride Sulfate TDS	
LAB USE ONLY	REMARKS:	General Water Chemistry (see attached list)	
		Anion/Cation Balance	
LAB USE ONLY	REMARKS:	Hold	

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Analysis Request of Chain of Custody Record

Page 3 of 14



Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Britany Long	
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Invoice to: EOG - Todd Wells	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR: 2020			
	BH-21 (6')	3/24/2021		X				X					X
	BH-22 (6')	3/24/2021		X				X					X
	BH-23 (6')	3/24/2021		X				X					X
	BH-24 (6')	3/24/2021		X				X					X
	BH-25 (6')	3/24/2021		X				X					X
	BH-26 (6')	3/24/2021		X				X					X
	BH-27 (6')	3/24/2021		X				X					X
	BH-28 (6.5')	3/24/2021		X				X					X
	BH-29 (6.5')	3/24/2021		X				X					X
	BH-30 (6.5')	3/24/2021		X				X					X

LAB USE ONLY	Retinquired by: <i>Carol Mung</i>	Date: _____	Time: _____	Received by: <i>Chae Giff</i>	Date: 3-25-21	Time: 1136
	Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

ANALYSIS REQUEST (Circle or Specify Method No.)	
☐ STANDARD ☒ RUSH: Same Day 24 hr 48 hr 72 hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	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

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Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

901 W. Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 583-2945

483741018/2015210

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Analysis Request of Chain of Custody Record

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Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Britiany Long		ANALYSIS REQUEST (Circle or Specify Method No.)					
Project Name: Heart Throb Riser SWD									
Project Location: Lea County, NM		Project #: 212C-MD-02410							
Invoice to: EOG - Todd Wells									
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno							
Comments:									
LAB #	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS:
		DATE	TIME						
	BH-41 (6)	3/24/2021		X	X	X		X	
	BH-42 (6)	3/24/2021		X	X	X		X	
	BH-43 (6)	3/24/2021		X	X	X		X	
	BH-44 (6)	3/24/2021		X	X	X		X	
	BH-45 (6)	3/24/2021		X	X	X		X	
	BH-46 (3.5)	3/24/2021		X	X	X		X	
	BH-47 (3.5)	3/24/2021		X	X	X		X	
	BH-48 (5)	3/24/2021		X	X	X		X	
	BH-49 (5)	3/24/2021		X	X	X		X	
	BH-50 (5)	3/24/2021		X	X	X		X	
Relinquished by: <i>Eud Mund</i>		Date: 3.25.21	Time: 1136	LAB USE ONLY		REMARKS:			
Relinquished by: <i>Joe Giff</i>		Date: 3.25.21	Time: 1136	LAB USE ONLY		REMARKS:			
Relinquished by: _____		Date: _____	Time: _____	LAB USE ONLY		REMARKS:			
Received by: _____		Date: _____	Time: _____	LAB USE ONLY		REMARKS:			
Received by: _____		Date: _____	Time: _____	LAB USE ONLY		REMARKS:			

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

 Sample Temperature
☒ STANDARD
☐ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

Analysis Request of Chain of Custody Record

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Tetra Tech, Inc.

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

Client Name: EOG Site Manager: Britiany Long

Project Name: Heart Throb Riser SWD

Project Location: Lea County, NM

Project #: 212C-MD-02410

Invoice to: EOG - Todd Wells

Receiving Laboratory: Xenco

Sampler Signature: Ezequiel Moreno

Comments:

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		DATE	TIME			WATER	SOIL	HCL	HNO ₃	ICE	None	# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
														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	General Water Chemistry	Anion/Cation Balance																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

 Relinquished by: *Evelyn M...* Date: Time:

 Received by: *Joe G...* Date: 3-25-21 Time: 11:36

 Relinquished by: *Evelyn M...* Date: Time:

 Received by: *Joe G...* Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

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(Circle) HAND DELIVERED FEDEX UPS Tracking #:

 REMARKS:
☐ STANDARD
☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

Analysis Request of Chain of Custody Records



Tetra Tech, Inc.

682-4559
682-3946

9/24/96/035219

Client Name: **EOG**

Site Manager: **Brittany Long**

Project Name: Heart Throb Riser SWD

Project Location: (county, state)	Lea County, NM	Project #:	212C-MD-02410
--------------------------------------	----------------	------------	---------------

EOG - Todd Wells

Receiving Laboratory:	Xenco	Sampler Signature:	Ezequiel Moreno
Comments:			

ANALYSIS REQUEST

(Circle or Specify Method No.)

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Analysis Request of Chain of Custody Record

Page 9 of 14



Tetra Tech, Inc.

 3911 W. Main Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Project #: 212C-MD-02410	
Invoice to: EOG - Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Sampler Signature: Ezequiel Moreno	
Comments:			

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None				
										YEAR 2020			
	BH-81 (5)	3/24/2021			X			X					
	BH-82 (5)	3/24/2021			X			X					
	BH-83 (5)	3/24/2021			X			X					
	BH-84 (5)	3/24/2021			X			X					
	BH-85 (5)	3/24/2021			X			X					
	BH-86 (7)	3/24/2021			X			X					
	BH-87 (7)	3/24/2021			X			X					
	BH-88 (7)	3/24/2021			X			X					
	BH-89 (7)	3/24/2021			X			X					
	BH-90 (7)	3/24/2021			X			X					

Relinquished by: <i>Ezequiel Moreno</i>	Date: _____	Time: _____	Received by: <i>Chae Goff</i>	Date: 3.25.21	Time: 1136
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

LAB USE ONLY	REMARKS:	STANDARD	RUSH: Same Day 24 hr 48 hr 72 hr	Rush Charges Authorized	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

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Tetra Tech, Inc.

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

(432) 682-3946

Brittany Long

ANALYSIS REQUEST

(Circle or Specify Method No.)

Client Name: **EOG** Site Manager:

Project Name: Heart Throb Riser SWD

Project Location:
(county, state) Lea County, NM

Project #:

212C-MD-02410

Invoice to:

EOG - Todd Wells

Receiving Laboratory:

Sampler Signature:

Ezequiel Moreno

Comments:

[illegible]

Relinquished by: 011 Date: 11/11/11 Time: 11:11

Received by:

Date: Time:

Veronica J. Moore

U

5

Relinquished by: _____ Date: _____ Time: _____

Received by:

Date: Time:

LAB USE
ONLY

REMARKS: ☐ STANDARD

Sample Temperature

□

+

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Page 11 of 14



Tetra Tech, Inc.

 30777 Vrain Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

Client Name: EOG		Site Manager: Britany Long	
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Project #: 212C-MD-02410	
Invoice to: EOG - Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # LAB USE ONLY	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)		
		YEAR 2020		WATER	SOIL	HCL	HNO ₃			ICE	None
		DATE	TIME								
	BH-101 (5')	3/24/2021		X				X			
	BH-102 (5')	3/24/2021		X				X			
	BH-103 (5')	3/24/2021		X				X			
	SW-1 (3.5')	3/24/2021		X				X			
	SW-2 (3.5')	3/24/2021		X				X			
	SW-3 (3.5')	3/24/2021		X				X			
	SW-4 (5')	3/24/2021		X				X			
	SW-5 (5')	3/24/2021		X				X			
	SW-6 (5')	3/24/2021		X				X			
	SW-7 (5')	3/24/2021		X				X			

Relinquished by: <i>Erin M...</i>	Date: _____	Time: _____	Received by: <i>Don G...</i>	Date: 3-25-21	Time: 1136
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
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ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB USE ONLY	☒ BTEX 8021B	☒ BTEX 8260B
	☒ TPH TX1005 (Ext to C35)	
	☒ TPH 8015M (GRO - DRO - ORO - MRO)	
	☒ PAH 8270C	
	☒ Total Metals Ag As Ba Cd Cr Pb Se Hg	
	☒ TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
	☒ TCLP Volatiles	
	☒ TCLP Semi Volatiles	
	☒ RCI	
	☒ GC/MS Vol. 8260B / 624	
	☒ GC/MS Semi. Vol. 8270C/625	
	☒ PCB's 8082 / 608	
	☒ NORM	
	☒ PLM (Asbestos)	
	☒ Chloride	
☒ Chloride Sulfate TDS		
☒ General Water Chemistry (see attached list)		
☒ Anion/Cation Balance		
☒ Hold		

REMARKS:	☐ 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 #:

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

 901 W. Main Street, Ste 100
 Midland, Texas 79705
 Tel (432) 692-4559
 Fax (432) 692-3946

Page 12 of 14

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Project #: 212C-MD-02410	
Invoice to: EOG - Todd Wells		Sample Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)	
	SW-# (G.S.)	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE			None
	SW-8 (6.5)	3/24/2021		X				X			
	SW-9 (5)	3/24/2021		X				X			
	SW-10 (5)	3/24/2021		X				X			
	SW-11 (5)	3/24/2021		X				X			
	SW-12 (5)	3/24/2021		X				X			
	SW-13 (6.5)	3/24/2021		X				X			
	SW-14 (5)	3/24/2021		X				X			
	SW-15 (5)	3/24/2021		X				X			
	SW-16 (5)	3/24/2021		X				X			
	SW-17 (5)	3/24/2021		X				X			

Relinquished by: <i>Ezequiel Moreno</i>	Date: <i>3-25-21</i>	Time: <i>1136</i>
Relinquished by: <i>Carly</i>	Date: <i>3-25-21</i>	Time: <i>1136</i>
Relinquished by:	Date:	Time:
Received by:	Date:	Time:

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

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

REMARKS:
☐ STANDARD
☒ Rush - Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

B1

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Page 13 of 14



Tetra Tech, Inc.

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

Client Name: EOG		Site Manager: Brittany Long	
Project Name: Heart Throb Riser SWD		Project #: 212C-MD-02410	
Project Location: Lea County, NM		Project #: 212C-MD-02410	
Invoice to: EOG - Todd Wells		Sampler Signature: Ezequiel Moreno	
Receiving Laboratory: Xenco		Comments:	

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION		SAMPLING		MATRIX					PRESERVATIVE METHOD					# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
	DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None									
									YEAR 2020	DATE	TIME	WATER	SOIL	HCL			
	SW-18 (5)	3/24/2021		X				X								BTEX 8021B BTEX 8260B	
	SW-19 (7)	3/24/2021		X				X								TPH TX1005 (Ext to C35)	
	SW-20 (7)	3/24/2021		X				X								TPH 8015M (GRO - DRO - ORO - MRO)	
	SW-21 (7)	3/24/2021		X				X								PAH 8270C	
	SW-22 (7)	3/24/2021		X				X								Total Metals Ag As Ba Cd Cr Pb Se Hg	
	SW-23 (5)	3/24/2021		X				X								TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
	SW-24 (5)	3/24/2021		X				X								TCLP Volatiles	
	SW-25 (5)	3/24/2021		X				X								TCLP Semi Volatiles	
	SW-26 (5)	3/24/2021		X				X								RCI	
	SW-27 (5)	3/24/2021		X				X								GC/MS Vol. 8260B / 624	
																GC/MS Semi. Vol. 8270C/625	
																PCB's 8082 / 608	
																NORM	
																PLM (Asbestos)	
																Chloride	
																Chloride Sulfate TDS	
																General Water Chemistry (see attached list)	
																Anion/Cation Balance	
																Hold	

Relinquished by: <i>Ezequiel Moreno</i>	Date: <i>3/25/21</i>	Time: <i>1136</i>	Received by: <i>Joe Galt</i>	Date: <i>3/25/21</i>	Time: <i>1136</i>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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LAB USE ONLY	REMARKS:
☐ STANDARD ☒ RUSH - Same Day 24hr 48hr 72hr ☐ Rush Charges Authorized ☐ Special Report Limits or TRRP Report	(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

(4372) 682-3946

For

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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



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM		Carrier Tracking No(s)		COC No:	
Client Contact:		Phone:		Kramer Jessica		State of Origin:		890-129-1	
Shipping/Receiving		E-Mail:		jessica.kramer@eurofins.com		New Mexico		Page 1 of 15	
Company		Address:		Accreditations Required (See note)		NELAP - Louisiana, NELAP - Texas		Job #:	
Eurofins Xenco		1211 W Florida Ave.		Due Date Requested		3/30/2021		890-426-1	
City:		Midland		TAT Requested (days)		3/30/2021		Preservation Codes	
State, Zip:		TX, 79701		PO #:		432-704-5440(Tel)		A. HCL B. NaOH C. Zn Acetate D. Nitric Acid E. NaHSO4 F. MeOH G. Amchlor H. Ascorbic Acid I. Ice J. DI Water K. EDTA L. EDA M. Hexane N. None O. AsNaO2 P. Na2O4S Q. Na2SO3 R. Na2S2O3 S. H2SO4 T. TSP Dodecalhydrate U. Acetone V. MCAA W. pH 4.5 Z. other (specify)	
Email:		WO #:		Project #:		88000013		Other:	
Project Name:		Heart Throb Risers SWD		SSOW#:					
Site:									
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=solid, O=wastefoil, BI=Tissue, A=AI)	
BH-1 (3 5) (890-426-1)		3/24/21		Mountain		Solid		Field Filtered Sample (Yes or No)	
BH-2 (3 5) (890-426-2)		3/24/21		Mountain		Solid		Perform MS/MSD (Yes or No)	
BH-3 (3 5) (890-426-3)		3/24/21		Mountain		Solid		300_ORGFN_28D/DI_LEACH Chloride	
BH-4 (3 5) (890-426-4)		3/24/21		Mountain		Solid		8015MOD_NM/8016NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	
BH-5 (3 5) (890-426-5)		3/24/21		Mountain		Solid		8021B/8035FP_Calc BTEX	
BH-6 (3 5) (890-426-6)		3/24/21		Mountain		Solid			
BH-7 (3 5) (890-426-7)		3/24/21		Mountain		Solid			
BH-8 (3 5) (890-426-8)		3/24/21		Mountain		Solid			
BH-9 (3 5) (890-426-9)		3/24/21		Mountain		Solid			
								Total Number of containers	
								Special Instructions/Note:	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontrated 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/matrix 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.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested I, II, III, IV Other (specify)									
Primary Deliverable Rank: 2									
Special Instructions/QC Requirements:									
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
Empty Kit Relinquished by									
Relinquished by: CUE CUFF 3:25									
Relinquished by: Date/Time: 3/25/21									
Relinquished by: Date/Time: 3/25/21									
Relinquished by: Date/Time: 3/25/21									
Custody Seals Intact: Custody Seal No									
A Yes A No									

Eurofins Xenco, Carlsbad

1089 N Canal St.

Carlsbad NM 88220

Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



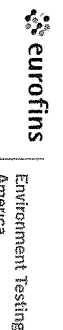
Client Information (Sub Contract Lab) Client Contact: Shipping/Receiving Company: Eurofins Xenco Address: 1211 W Florida Ave City: Midland State, Zip: TX, 79701 Phone: 432-704-5440(Tel) Email: Project Name: Heart Throb Risers SWD Site:		Lab PM: Kramer Jessica E-Mail: jessica.kramer@eurofinset.com Accreditations Required (See note): NELAP - Louisiana NELAP - Texas	Carrier Tracking No(s): 890-129 2 State of Origin: New Mexico Page: Page 2 of 15 Job #: 890-426-1	Analysis Requested 300_ORGFM_28D/DI_LEACH Chloride 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH GRO 8021B/5036FP_Calc BTEX Total Number of Containers: 1	Preservation Codes: A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Amchlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other:	M Hexane N None O AsNaO2 P Na2O4S Q Na2SO3 R Na2S2O3 S H2SO4 T TSP Dodecahydrate U Acetone V MCAA W pH 4-5 Z other (specify)	Sample Identification - Client ID (Lab ID) BH-10 (5') (890-426-10) BH-11 (5') (890-426-11) BH-12 (5') (890-426-12) BH-13 (5') (890-426-13) BH-14 (5') (890-426-14) BH-15 (5') (890-426-15) BH-16 (5') (890-426-16) BH-17 (5') (890-426-17) BH-18 (5') (890-426-18)	Due Date Requested: 3/30/2021 TAT Requested (days): PO #: WO #: Project #: 88000013 SSOW#:	Sample Date: 3/24/21 Sample Time: Mountain Sample Type (C=Comp, G=grab): Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air): Solid	Field Filtered Sample (Yes or No): Perform MS/MSD (Yes or No): 8016MOD_NM/8016NM_S_Prep (MOD) Full TPH GRO 8021B/5036FP_Calc BTEX Special Instructions/Note:	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/matrix 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.	Possible Hazard Identification Unconfirmed Deliverable Requested I, II, III, IV Other (specify): Primary Deliverable Rank 2	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:	Empty Kit Relinquished by: <i>Chad Oakes 3.25.21</i> Relinquished by: Date/Time: Relinquished by: Date/Time: Relinquished by: Date/Time: Custody Seals Intact. Custody Seal No: Δ Yes Δ No	Method of Shipment: Received by: Date/Time: Company: Received by: Date/Time: Company: Received by: Date/Time: Company: Cooler Temperature(s) °C and Other Remarks:	Ver: 11/01/2020
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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



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:							
Client Contact	Phone	Kramer Jessica	State of Origin:	New Mexico	890-129-3							
Shipping/Receiving	E-Mail	Jessica.kramer@eurofins.com	Accreditations Required (See note)	NE LAP - Louisiana NE LAP - Texas	Page 3 of 15							
Company	Address:	1211 W Florida Ave.	Due Date Requested	3/30/2021	Job #:							
City	Midland	State, Zip:	TX, 79701	PO #:	432-704-5440(Tel)							
Phone:	432-704-5440(Tel)	WO #	Project #:	88000013	SSOW#:							
Project Name:	Heart Throb Risers SWD	Project #:	88000013	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/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/DI_LEACH Chloride	8016MOD_NM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note:
BH-19 (5)	(890-426-19)	3/24/21	Mountain		Solid		X	X	X	1		
BH-20 (6)	(890-426-20)	3/24/21	Mountain		Solid		X	X	X	1		
BH-21 (6)	(890-426-21)	3/24/21	Mountain		Solid		X	X	X	1		
BH-22 (6)	(890-426-22)	3/24/21	Mountain		Solid		X	X	X	1		
BH-23 (6)	(890-426-23)	3/24/21	Mountain		Solid		X	X	X	1		
BH-24 (6)	(890-426-24)	3/24/21	Mountain		Solid		X	X	X	1		
BH-25 (6)	(890-426-25)	3/24/21	Mountain		Solid		X	X	X	1		
BH-26 (6)	(890-426-26)	3/24/21	Mountain		Solid		X	X	X	1		
BH-27 (6)	(890-426-27)	3/24/21	Mountain		Solid		X	X	X	1		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyze & accreditation compliance upon out 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/testing, 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.												
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: _____												
Relinquished by _____ Date/Time: _____ Company _____ Received by _____ Date/Time: _____ Company _____												
Relinquished by _____ Date/Time: _____ Company _____ Received by _____ Date/Time: _____ Company _____												
Custody Seals Intact _____ Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: _____												

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199



Environment Testing
America

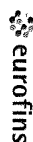
Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Eurofins Xenco		Kramer Jessica	Kramer Jessica	890-129 4	890-129 4
Shipping/Receiving		Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 4 of 15
Company:		Job #: 890-426-1			
Address:		Accreditations Required (See note)			
1211 W Florida Ave		NELAP - Louisiana NELAP - Texas			
City: Midland		Analysis Requested			
State, Zip: TX, 79701		Preservation Codes			
Phone: 432-704-5440(Tel)		A HCL M Hexane			
Email:		B NaOH N None			
Project Name: Heart Throb Risers SWD		C Zn Acetate O AsNaO2			
Site:		D Nitric Acid P Na2O4S			
		E NaHSO4 Q Na2SO3			
		F MeOH R Na2SO3			
		G Amchlor S H2SO4			
		H Ascorbic Acid T TSP Dodecahydrate			
		I Ice U Acetone			
		J DI Water V MCAA			
		K EDTA W pH 4-5			
		L EDA Z other (specify)			
		Other			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue Anal)
BH-28 (6 5') (890-426-28)		3/24/21	Mountain	Solid	Field Filtered Sample (Yes or No)
BH-29 (6 5') (890-426-29)		3/24/21	Mountain	Solid	Perform MS/MSD (Yes or No)
BH-30 (6 5') (890-426-30)		3/24/21	Mountain	Solid	300_ORGM_28D/DI_LEACH Chloride
BH-31 (6 5') (890-426-31)		3/24/21	Mountain	Solid	8016MOD_MM/8016NM_S_Prep (MOD) Full TPH GRO.
BH-32 (6 5') (890-426-32)		3/24/21	Mountain	Solid	8021B/6035FP_Calc BTEX
BH-33 (6 5') (890-426-33)		3/24/21	Mountain	Solid	
BH-34 (5') (890-426-34)		3/24/21	Mountain	Solid	
BH-35 (5') (890-426-35)		3/24/21	Mountain	Solid	
BH-36 (5') (890-426-36)		3/24/21	Mountain	Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out 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/matrix 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.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II III IV, Other (specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by		Date		Time	
Relinquished by: <i>Olivia Ayala</i>		Date/Time:		Company	
Relinquished by:		Date/Time:		Company	
Relinquished by:		Date/Time:		Company	
Custody Seals Intact: <i>Yes</i>		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	
Δ Yes Δ No		Ver 11/01/2020			

Eurofins Xenco, Carlsbad

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)						Sampler	Lab PM	Carrier Tracking No(s)	COC No:
Client Contact: Shipping/Receiving						Phone:	Kramer, Jessica E-Mail: Jessica.kramer@eurofinsnet.com	State of Origin: New Mexico	890-129 5
Company: Eurofins Xenco						Accreditations Required (See note) NELAP - Louisiana, NELAP - Texas			Page 5 of 15
Address: 1211 W Florida Ave., Midland TX, 79701 Phone: 432-704-5440(Tel) Email: PO #: W/O #:						Due Date Requested 3/30/2021 TAT Requested (days)			Job #: 890-426-1
Project Name: Heart Throb Risers SWD						Project #: 88000013			Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amethor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SCo3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4.5 Z - other (specify)
Site: SSOW#:									
Sample Identification - Client ID (Lab ID)						Field Filtered Sample (Yes or No)			Total Number of containers
						Perform MS/MSD (Yes or No)			
						300_ORGFMM_28D/DI_LEACH Chloride			
						8015MOD_MM/8015NM_S_Prep (MOD) Full TPH GRO-DRO-MRO			
						8021B/6036FP_Calc BTEX			
BH-37 (6) (890-426-37)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-38 (6) (890-426-38)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-39 (6) (890-426-39)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-40 (6) (890-426-40)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-41 (6) (890-426-41)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-42 (6) (890-426-42)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-43 (6) (890-426-43)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-44 (6) (890-426-44)	3/24/21	Mountain	Solid	X	X	X	X	1	
BH-45 (6) (890-426-45)	3/24/21	Mountain	Solid	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyze & 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/matrix 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.									
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested I, II III IV Other (specify)						Special Instructions/QC Requirements			
Primary Deliverable Rank: 2									
Empty Kit Relinquished by						Date	Time	Method of Shipment:	
Relinquished by: Cee Giff 3-25-21						Date/Time:		Date/Time:	
Relinquished by:						Date/Time:	Company:	Date/Time:	
Relinquished by:						Date/Time:	Company:	Date/Time:	
Custody Seals Intact						Custody Seal No	Cooler Temperature(s) °C and Other Remarks:		
Δ Yes Δ No									

Chain of Custody Record

Client Information (Sub Contract Lab)					
Sample		Lab PM		Carrier Tracking No(s)	
Phone:		Kramer Jessica		890-129 6	
E-Mail		jessica.kramer@eurofinset.com		Page 6 of 15	
Company		Eurofins Xenco		Job #	
Address		1211 W Florida Ave		890-426-1	
City		Midland		Preservation Codes	
State Zip		TX 79701		A HCL M Hexane B NaOH N None C Zn Acetate O AshNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other	
Phone		432-704-5440(Tel)			
Email					
Project Name:		Heart Throb Risers SWD			
Site:		SSOW#:			
Due Date Requested		3/30/2021			
TAT Requested (days):					
PO #					
WO #:					
Project #		88000013			
Site:					
Analysis Requested					
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of containers	
300 ORGFM_28D/DI LEACH Chloride		X		X	
8016MOD_NM/8016NM_S_Prep (MOD) Full TPH GRO.		X		X	
8021BI/6035FP_Calc BTEX		X		X	
Special Instructions/Note.					
BH-46 (3 5') (890-426-46)					
BH-47 (3 5') (890-426-47)					
BH-48 (5') (890-426-48)					
BH-49 (5') (890-426-49)					
BH-50 (5') (890-426-50)					
BH-51 (5') (890-426-51)					
BH-52 (5') (890-426-52)					
BH-53 (5') (890-426-53)					
BH-54 (5') (890-426-54)					
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out 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/tests/matrix 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					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested I II, III IV Other (specify)					
Primary Deliverable Rank 2					
Empty Kit Relinquished by					
Relinquished by					
Date/Time:					
Relinquished by					
Date/Time:					
Relinquished by					
Date/Time:					
Custody Seals Intact.					
A Yes A No					
Custody Seal No					

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[illegible]

Environment Testing America

Chain of Custody Record

Ver. 11/01/2020

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-426-1

SDG Number: Lea County NM

Login Number: 426**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins 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	

Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-426-1

SDG Number: Lea County NM

Login Number: 426**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 03/25/21 05:13 PM**

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?	N/A	
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	



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

April 07, 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 04/06/21 16:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 29 (H210848-01)

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	04/07/2021	ND	2.01	100	2.00	7.11	
Toluene*	<0.050	0.050	04/07/2021	ND	1.94	97.1	2.00	8.13	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.89	94.7	2.00	7.64	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.64	94.0	6.00	7.10	
Total BTEX	<0.300	0.300	04/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	218	109	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.0 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 30 (H210848-02)

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	04/07/2021	ND	2.01	100	2.00	7.11	
Toluene*	<0.050	0.050	04/07/2021	ND	1.94	97.1	2.00	8.13	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.89	94.7	2.00	7.64	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.64	94.0	6.00	7.10	
Total BTEx	<0.300	0.300	04/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	218	109	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 31 (H210848-03)

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	04/07/2021	ND	2.01	100	2.00	7.11		
Toluene*	<0.050	0.050	04/07/2021	ND	1.94	97.1	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.89	94.7	2.00	7.64		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.64	94.0	6.00	7.10		
Total BTEX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	218	109	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 32 (H210848-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/07/2021	ND	2.01	100	2.00	7.11	
Toluene*	<0.050	0.050	04/07/2021	ND	1.94	97.1	2.00	8.13	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.89	94.7	2.00	7.64	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.64	94.0	6.00	7.10	
Total BTX	<0.300	0.300	04/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	213	107	200	5.90	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	218	109	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.9 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 33 (H210848-05)

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	04/07/2021	ND	2.01	100	2.00	7.11		
Toluene*	<0.050	0.050	04/07/2021	ND	1.94	97.1	2.00	8.13		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.89	94.7	2.00	7.64		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.64	94.0	6.00	7.10		
Total BTEX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/06/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/06/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/06/2021	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.7 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 34 (H210848-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/06/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/06/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/06/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.0 % 42.2-156

Cardinal Laboratories

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 35 (H210848-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 80.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 36 (H210848-08)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 37 (H210848-09)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.7 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 38 (H210848-10)

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	04/07/2021	ND	2.06	103	2.00	6.55	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04	
Total BTEx	<0.300	0.300	04/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.5 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 39 (H210848-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.9 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 40 (H210848-12)

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	04/07/2021	ND	2.06	103	2.00	6.55	
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94	
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04	
Total BTEx	<0.300	0.300	04/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.7 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 41 (H210848-13)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.5 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 42 (H210848-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.4 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 43 (H210848-15)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 44 (H210848-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.2 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 45 (H210848-17)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.4 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 46 (H210848-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.4 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 47 (H210848-19)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.5 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 48 (H210848-20)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.9 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 49 (H210848-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.4 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 50 (H210848-22)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEX	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.6 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 51 (H210848-23)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 83.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 52 (H210848-24)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	226	113	200	3.35	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	245	122	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.1 % 42.2-156

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:	04/06/2021	Sampling Date:	04/06/2021
Reported:	04/07/2021	Sampling Type:	Soil
Project Name:	HEART THROB RISER SWD	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 02410	Sample Received By:	Jodi Henson
Project Location:	EOG - LEA CO NM		

Sample ID: SW - 53 (H210848-25)

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	04/07/2021	ND	2.06	103	2.00	6.55		
Toluene*	<0.050	0.050	04/07/2021	ND	2.01	101	2.00	6.73		
Ethylbenzene*	<0.050	0.050	04/07/2021	ND	1.96	97.8	2.00	6.94		
Total Xylenes*	<0.150	0.150	04/07/2021	ND	5.81	96.9	6.00	7.04		
Total BTEx	<0.300	0.300	04/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	04/07/2021	ND	400	100	400	3.92		

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	04/07/2021	ND	216	108	200	0.506	
DRO >C10-C28*	<10.0	10.0	04/07/2021	ND	214	107	200	0.852	
EXT DRO >C28-C36	<10.0	10.0	04/07/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

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

Celey D. Keene, Lab Director/Quality Manager

Analysis Request of Custody Record

Tetra Tech, Inc.

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



Site Manager: **Brittany Long**

Client Name: **EOG Resources**

Project Name: **Heart Throb Riser SWD**

Project #: **212C-MD-02410**

Project Location: **Lea County, New Mexico**

Invoice to: **Todd Wells**

Sampler Signature: **Ezequiel Moreno Flores**

Receiving Laboratory: **Cardinal**

Comments:

H21D448

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)

H21D448		LAB #		LAB USE ONLY		SAMPLE IDENTIFICATION									
		SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS		FILTERED (Y/N)			
		YEAR:													
		DATE		TIME		WATER		SOIL		HCL		HNO ₃		ICE	
1	SW-29	4/6/2021				X				X		X		1	
2	SW-30	4/6/2021				X				X		X		1	
3	SW-31	4/6/2021				X				X		X		1	
4	SW-32	4/6/2021				X				X		X		1	
5	SW-33	4/6/2021				X				X		X		1	
6	SW-34	4/6/2021				X				X		X		1	
7	SW-35	4/6/2021				X				X		X		1	
8	SW-36	4/6/2021				X				X		X		1	
9	SW-37	4/6/2021				X				X		X		1	
10	SW-38	4/6/2021				X				X		X		1	

Relinquished by: **Erin Nunez**

Date: **4/6/21**

Received by: **Ardi Henderson**

Date: **4/6/21**

Relinquished by:

Date: **4/6/21**

Received by:

Date: **4/6/21**

Relinquished by:

Date: **4/6/21**

Received by:

Date: **4/6/21**

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	☒	

REMARKS:

LAB USE ONLY

☒ RUSH: Same Day **24 hr** 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

Sample Temperature: **5.1°C**

#113

Hand Delivered ☒ FEDEX ☐ UPS ☐ Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

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



Tetra Tech, Inc.

Brittany Long

EOG Resources

Heart Throb Riser SWD

212C-MD-02410

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

Invoice to:
Todd Wells

Sampler Signature: Ezequiel Moreno Flores

Receiving Laboratory:
Cardinal

Comments:

LAB #

SAMPLE IDENTIFICATION

LAB USE ONLY

LAB #	SW	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)										
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE											
11	SW-39	4/6/2021		X	X		X		1	X									
12	SW-40	4/6/2021		X	X		X		1	X									
13	SW-41	4/6/2021		X	X		X		1	X									
14	SW-42	4/6/2021		X	X		X		1	X									
15	SW-43	4/6/2021		X	X		X		1	X									
16	SW-44	4/6/2021		X	X		X		1	X									
17	SW-45	4/6/2021		X	X		X		1	X									
18	SW-46	4/6/2021		X	X		X		1	X									
19	SW-47	4/6/2021		X	X		X		1	X									
20	SW-48	4/6/2021		X	X		X		1	X									

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

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

Hold

REMARKS:

LAB USE ONLY

Sample Temperature

☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

#113

(Circle) HAND DELIVERED FEDEX UPS Tracking #

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Site Manager:

Brittany Long

Client Name:

EOG Resources

Project Name:

Heart Throb Riser SWD

Project #:

212C-MD-02410

Project Location:

Lea County, New Mexico

Invoice to:

Todd Wells

Sampler Signature:

Ezequiel Moreno Flores

Receiving Laboratory:

Cardinal

Comments:

H21D848

SAMPLE IDENTIFICATION

LAB #
(LAB USE ONLY)SAMPLING
YEAR
DATE
TIMEMATRIX
WATER
SOIL
HCL
HNO₃
ICE
PRESERVATIVE METHOD# CONTAINERS
FILTERED (Y/N)

BTEX 8021B BTEX 8260B

TPH TX1005 (Ext to C35)

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

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

RCI

GC/MS Vol. 8260B / 624

GC/MS Semi. Vol. 8270C/625

PCB's 8082 / 608

NORM

PLM (Asbestos)

Chloride

Chloride Sulfate TDS

General Water Chemistry (see attached list)

Anion/Cation Balance

Hold

ANALYSIS REQUEST

(Circle or Specify Method No.)

REMARKS:

LAB USE ONLY

Sample Temperature

5.1°C

#113

- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

Relinquished by: *Evelyn* Date: 4/6/21 Time:

Relinquished by: *Jacki* Date: 4/6/21 Time: 4:40

Relinquished by: Date: Time:

Received by: *Jacki* Date: 4/6/21 Time: 4:40

Received by: Date: Time:

ORIGINAL COPY

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 43212

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 43212
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2034260587 HEARTTHROB RISER SWD PIPELINE, thank you. This closure is approved.	11/29/2021